Model 9016 X-Purge Interfaces: User's Manual

FM APPROVED

October 2015

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Seller makes every effort to provide clear and accurate technical information on the application of its products in the Operator's Manual, and assumes no liability for misuse of the information.

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1 Introduction

Thank you for selecting a DAISY solution for your hazardous area operator interface requirements!

This manual describes the general procedures for installing and operating DAISY Model 9016 X-Purge interface systems. The text portion of the manual also includes an overview of the theory behind the methods used to make electronic systems safe for hazardous areas. Section 9, Specifications, also contains an overview of system specifications, and Section 10, Drawings, includes mechanical drawings of each unit.

We are always working to improve our documentation. If you have any suggestions or requests, please forward them to our sales department at sales@Daisyinc.net, or to Daisy Data Displays, Inc., 2850 Lewisberry Road, York Haven, PA 17370, Attn: User Manual Coordinator.

2 Hazardous Area Safety Methods: Theory of Operation

2.1 Division 1: X-Purge Protection

X-purge systems are another option available for Division 1 hazardous areas. The installation of an X-purge system on an enclosure in a Division 1 area renders the area within the enclosure to an essentially non-rated environment. Thus, normally rated equipment may be installed within the enclosure (within reasonable limits, such as complying with temperature and power restrictions).

An X-purge system is fully automated. The system not only provides the protective purge and maintains positive pressure, but it also automatically controls the connection and disconnection of power supplies and signal paths. A well-designed X-purge system also automatically control flow rates, internal pressure regulation, purge timing, and switching of states between purge flow and normal operation. DAISY X-purge controls provide all of these features.

X-purge controls must also satisfy the FM 3620: 4.2 specifications. DAISY X-purged equipment has also been validated by Factory Mutual as meeting these requirements.

3 Pre-Installation Testing

Before installing your system in its final location, you may wish to test it to verify that the purge system is functioning correctly.

3.1 Division 1 X-Purge Test

IMPORTANT NOTE: Pre-installation testing should *always* be conducted in a safe area.

Equipment Required

- Clean, dry purge air or inert gas supply equipped with local water/oil separator or filter capable of supplying 40 to 300 SCFH at 30 to 60 PSI.
- Fittings and tubing for purge air or inert gas supply (0.25" NPT Male to connect to the inlet of the purge system).
- Local air pressure shutoff valve.
- AC power line (with ground) to pigtails (tinned bare wire, stripped 0.25"), 120V, 8A or 240V, 4A

Procedure

1. Place the unit in a safe area near a source of the purge gas to be used (compressed air line or other inert gas source).
2. Temporarily install a pressure regulator, water/oil separator or filter, shutoff valve, pressure relief valve, and pressure gauge in the purge air or inert gas line (see drawing P007).
3. **Bleed the purge air or inert gas line to insure that dirt, moisture, and other contaminants are cleared from the line prior to connecting the line to the unit!**
4. Connect the purge gas line to the inlet of the regulator on the Purge Unit.
5. Remove the cover of the explosion-proof I/O casting (see drawing P007 at the end of this manual).
6. Connect an AC power line (not plugged into AC power outlet!) to the power interface board (see drawing P008). For connection, location and wiring, see drawing E017 (NOTE1).
7. Close all access doors and covers.
8. Apply purge gas to the system by opening the shutoff valve (if installed). Adjust the pressure regulator on the air-in box (see drawing P008) so that the pressure gauge indicates 40 PSI.
9. Apply AC power to the unit.
10. Once the pressure inside the unit reaches 1.0" Water Column and at least 40 SCFH, the Purge Status LED will illuminate yellow, indicating that it is purging. If the purge status indicator does not turn yellow, inspect the unit for leakage. The gasketed panels can be checked with a soap solution. If leaks are not obvious, verify that the purge air of inert gas is clean and dry and that the pressure at the inlet is 40 PSI.
11. **DO NOT ATTEMPT TO OPEN THE ENCLOSURE WHILE IT IS PRESSURIZED!**

12. Note the reading on the Pressure Gauge while slowly turning the Air Input Regulator up until the purging process stops and the Purge Status LED flashes red with an error code of 2 – 2 (over pressure) or 3 –2 (over flow).
13. Remove AC power from the enclosure for a minimum of 30 seconds. Decrease the pressure reading on the pressure gauge by 5 PSI.

    This change may vary slightly on some unit; if in later testing the unit fails with an over flow error (3-2 blink code), decrease the inlet pressure by another 2 PSI. **Note this pressure for use during start-up.**
14. Re-apply AC power. The Purge Status LED will illuminate yellow. The system should purge for a minimum of 8 minutes. The time will vary according to the flow rate of the air into the enclosure; lower flow rates will result in a longer purge time.
15. After the purge is complete, the Purge Status indicator will illuminate green. AC power is now applied to the internal electronics so you should be able to power on the display or PC.
16. If the purge status light blinks red, one of several possible errors has been detected. Please refer to Table 6.1 on page 14 for an explanation of the possible error codes.

4 Installation

4.1 PAC-Seal Connection Instructions

A conduit seal is necessary for most equipment enclosures in hazardous areas. Please consult your local code for other instances and full details.

ALWAYS follow all NEC, NFPA, and local codes when installing conduit and PAC-seals in hazardous areas! It is *very important* that knowledgeable personnel, familiar with national and local codes, supervise hazardous area equipment installations.

The sealing compound generally used for PAC-seals is an inorganic, chemically setting, magnesium oxide base material, which develops a slight expansion while hardening into a porcelain-like body. Sealing Compound is supplied as a powder and need only be mixed with water to apply. Approximately one ounce of sealing compound is needed per cubic inch of space to be filled.

The sealing compound powder has a shelf life of six months when stored in unopened, tightly sealed containers in a dry location at 70°F.

Any equipment accidentally splashed with sealing compound should be cleaned with soap and water before the sealing compound cures.

Equipment Required

- Four PAC-Seal fittings, 1” NPT or 0.75” NPT for the X-Purge (2 for conduit connection at the enclosure or I/O casting, 2 for connection in the safe area), or sealing conduits. The PAC Seal and conduit size selected will depend on the size and number of conductors, which must be run to the unit. Check the NEC tables (Chapter 9, Table 4) to determine the conduit size necessary
- Conduit for electrical signals and for electrical power (separate runs), NEC and NFPA approved for use in hazardous areas
- NEC and NFPA approved flexible conduit if needed for difficult installations
- Fittings as required for permanent conduit installation NEC and NFPA approved for use in hazardous areas
- Signal cables, power cables, and connectors as required to mate with the equipment within the enclosure or cast aluminum box
- AC power switch for use in the safe area

Procedure

1. Threaded surfaces and pour locations should be cleaned with soap and water and thoroughly dried before proceeding.
2. Install two conduit runs (one signal, one power) between the enclosure I/O casting and AC power source (located in a safe area or in an explosion-proof box). See drawing P011 at the end of this manual.
3. Shake the sealing compound powder well before mixing with water. The recommended mix ratio is 5 parts powder to 1 part clean water, by weight. A 25mL vial of water has been provided with the compound to meet this ratio. Place 70°F water into a clean mixing container and gradually add powder to water while mixing. Continue mixing until a uniform consistency is obtained. Mixing may be done with a slow-speed mixer or by hand with a spatula. The minimum amount of water (as specified above) should be used as excess water reduces mechanical strength, increases shrinkage, and delays set time. Failure of the cement to adhere indicates setting has begun – discard cement, do not attempt to re-temper by adding more water.
4. The compound may be applied by pouring, casting, or mechanical dispenser. The sealing compound hardens with an internal chemical-setting action in 18 to 24 hours at ambient temperature. Working time of the sealing compound when the powder is mixed with water is approximately 30 minutes at 70°F. If accelerated curing is desired, low temperature oven drying at 180°F can be used. Do not expose the sealing compound to higher temperatures, constant water immersion, or steam environments while curing. If high humidity resistance is required in the cured product, a moisture-resistant lacquer or silicone coating should be applied to the exposed surfaces.
5. The packing fiber is made from an environmentally safe, non-asbestos material. It is easy to use and forms a positive dam to hold the compound. The fiber is placed around each individual wire or cable at both ends of the cavity for horizontal pouring in the PAC Seal so that the Sealing Compound can encapsulate each completely. For vertical pouring, the packing fiber need only be placed at one end. See drawing P002 at the end of this manual.
6. We recommend a special blend of lubricants, LUBT-2, for use with threaded joints. This lubricant is to be used to prevent galling of the pipe threads when threaded into a coupling, junction box, etc. It insures a quick release and undamaged male and female threads when parts are disassembled. The thread lubricant is high quality lubricant to be used in temperatures ranging from -40° to +50° F. It is recommended for use in a hazardous location. The PAC Seal Compound, packing fiber and LUBT-2 are available from Killark at http://www.killark.com/.
7. For enhanced reliability of the unit, install an AC line conditioner. AC power lines should be no smaller than 14 gauge and have a TRUE EARTH GROUND.

4.2 Purge Air Line Connection Instructions

4.2.1 For Division 1 X-Purge Systems Model 9016

After the unit has been mounted in its final location in the hazardous area, it must be permanently connected to a purge air or inert gas line and checked for leaks and proper operation of the purge/pressurization system. Only when its pressure integrity has been established should electrical signals and power be brought "live" to the unit.

ALWAYS follow all NEC, NFPA, and local codes when installing purge systems in hazardous areas! It is *very important* that knowledgeable personnel, familiar with national and local codes, supervise hazardous area equipment installations.

Equipment Required

- Clean, dry purge air or inert gas supply equipped with local water/oil separator or filter capable of supplying 40 to 300 SCFH at 30 to 60 PSI.
- Fittings and tubing for purge air or inert gas supply (0.25" NPT Male to connect to the inlet of the purge system).
- Local air pressure shutoff valve.

Procedure

1. Mount the enclosure in the location in which it will be installed. This must be near the source of air or inert gas to be used for the purge system.
2. Install the pressure regulator, water/oil separator or filter, shutoff valve, pressure relief valve, and pressure gauge in the purge air or inert gas line (see drawing P011 at the end of this manual).
3. **Bleed the purge air or inert gas line to insure that dirt, moisture, and other contaminants are cleared from the line prior to connecting the line to the unit!**
4. Connect the purge gas line to the inlet of the regulator on the Purge Unit.
5. The PAC-Seals bringing the power and signals to the explosion-proof I/O casting should already be installed. Connect the signal lines to the interlock system (see drawings E018, E019, E022, and E025).
6. Ensure that the power to the AC supply lines is disconnected. Connect the power line(s) to the X-purge system (see drawing E017).
7. If the area can be made safe, you may want to test your connections before closing the explosion-proof I/O casting. **If you test the system in place, it is VITAL that you ENSURE THAT THE AREA IS SAFE during the test and FOLLOW ALL APPLICABLE SAFETY PROCEDURES for "hot work" in a hazardous area!** You can test connections without purging by holding down the "Bypass Purge" button (see drawing E020) while applying power; you must release the button within 30 seconds of power application to prevent a diagnostic error. When the button is released, power and signals are immediately "live" to the system; you can test operation to make sure that the connections have been made correctly. **Disconnect power IMMEDIATELY upon completion of this test** to ensure that the unit is not erroneously operated in bypass mode!
8. When the signal and power connections are complete, replace the cover on the I/O casting and secure with the supplied 14 hex-head bolts. Torque these bolts to 7.5 ft. lbs.

5 Start-Up Operation

5.1 Division 1 X-Purge Start-Up Operation

1. Set DIP switches (see page 20 drawing P008, note 8 and page 38 drawing E029 note 3 to set the DIP switches for the size enclosure you are going to purge.
2. When the air, signal, and power connections are complete, replace and close all access doors and covers.
3. Apply AC power. The Purge Status LED will illuminate red. Power is now applied though the Intrinsic Safety Barriers to the purge/pressurization control circuits only.
4. Apply purge gas to the system by opening the shutoff valve (if installed). If the pre-installation test has been performed, the air-in pressure regulator will be preset – you should begin the start-up process at the pressure noted during testing. Otherwise, adjust the pressure regulator on the air-in box (see drawing P008) so that the pressure gauge indicates 40 PSI.
5. Once the pressure inside the unit reaches 1.0" Water Column and at least 40 SCFH, the Purge Status LED will illuminate yellow, indicating that it is purging. If the purge status indicator does not turn yellow, inspect the unit for leakage. The gasketed panels can be checked with a soap solution. If leaks are not obvious, verify that the purge air of inert gas is clean and dry and that the pressure at the inlet is 40 PSI (or, if a pre-installation test was completed, at the pressure noted during that test).
6. **DO NOT ATTEMPT TO OPEN THE ENCLOSURE WHILE IT IS PRESSURIZED!**
7. If the pre-installation test was completed and the unit appears to be functioning correctly within the same parameters as during the test, you may skip the remaining steps of this procedure.
8. Note the reading on the Pressure Gauge while slowly turning the Air Input Regulator until the Purge Status LED flashes red with an error code of 2 – 2 (over pressure) or 3 –2 (over flow).
9. Remove AC power from the enclosure for a minimum of 30 seconds. Decrease the pressure reading on the pressure gauge by 5 PSI. This change may vary slightly on some unit; if the unit fails during purging with an over flow error (3-2 blink code), decrease the inlet pressure by another 2 PSI.
10. Re-apply AC power. The Purge Status LED will illuminate yellow. The purge time is set for a minimum of 8 minutes. The time will vary according to the flow rate of the air into the enclosure.
11. After the purge is complete, the Purge Status indicator will illuminate green. AC power is now applied to the internal electronics and the signal relays are closed.
12. If the purge status light blinks red, one of several possible errors has been detected. Please refer to Table 6.1 on page 14 for an explanation of the possible error codes.

6 Operation Notes

6.1 Division 1 X-Purge

X-purge systems are fully automatic; the system safely disconnects power and signal paths in the event of a purge failure. The DAISY purge control also performs automatic self-diagnostics and can report other errors. Table 6.1 details both the normal conditions and the errors (fatal and non-fatal) that are reported by the purge status LED (see drawing P008, indicated by note 9). ***Please note*** that blink codes can be read in forward or reverse; that is, code 2-3 is the same is code 3-2. A "0" in the code column indicates steady (non-blinking) light. The status column indicates the nature of the information being given: "informative" is simply a status indication and no action needs to be taken, "non-fatal" is a condition that can be corrected and operation will then proceed normally, and "fatal" are errors that require that the purge system be shut down before correcting the problem and restarting the purge cycle.

Color	Code	Meaning	Status	Recommended Action
Green	0	Operate, purge complete	Informative	n/a
Yellow	0	Purge in progress	Informative	n/a
Yellow	1-1	Minor over flow	Non-fatal	Turn the air in regulator down a few PSI.
Red	0	Waiting to begin purge	Non-fatal	Turn the purge gas supply on. If it is on, the enclosure may not be developing enough internal pressure – make sure all doors and access panels are closed. Also, the air inlet pressure may not be high enough – try turning the regulator up.
Red	1-1	System Error	Fatal	Contact DAISY customer service (see section 7, Customer Service on page 15 in this manual).
Red	2-1	Under pressure	Fatal	Loss of pressure is usually due to a door being opened or failure of the purge gas supply. Check both.
Red	2-2	Over pressure	Fatal	Turn the air inlet regulator down at least 5 PSI. Repeat until purge will complete without error. If problems continue, or occur during operation, contact DAISY customer service (see section 7, Customer Service on page 15 in this manual).
Red	3-2	Major over flow	Fatal	Turn the air inlet regulator down at least 5 PSI.

Red	3-3	Water detected	Fatal	This should only occur if a water sensor option is installed. If it is installed, the unit must be opened and dried completely out. Ensure that no water remains in the unit and that there is no damage to the internal components resulting from the water. In case of serious water incursion, DO NOT ATTEMPT TO REAPPLY POWER TO THE EQUIPMENT; the equipment should be returned to DAISY for evaluation.
Red	4-1	Faulty pressure sensor	Fatal	A purge system component has failed. Please contact DAISY customer service (see section 7, Customer Service on page 15 in this manual).
Red	4-2	Faulty flow sensor	Fatal	A purge system component has failed. Please contact DAISY customer service (see section 7, Customer Service on page 15 in this manual).
Red	4-3	Short purge switch is stuck	Fatal	The “Short Purge” switch on the DIP switch mounting board (see drawing E020) is either shorted or stuck, or the operator has held it down too long while beginning a test. Ensure that there is nothing holding the switch closed or shorting the circuit. If you continue to experience problems, contact DAISY customer service (see section 7, Customer Service on page 15 in this manual).
Red	4-4	Bypass purge switch is stuck	Fatal	The “Bypass Purge” switch on the DIP switch mounting board (see drawing E020) is either shorted or stuck, or the operator has held it down too long while beginning a test. Ensure that there is nothing holding the switch closed or shorting the circuit. If you continue to experience problems, consult DAISY customer service (see section 7, Customer Service on page 15 in this manual).

Table 6.1 X-Purge Status Light Key

7 Customer Service

All Daisy systems pass detailed quality control configuration and inspection before being shipped. Daisy strives to create the highest quality systems, and chooses top quality parts. However, like most electronic devices, units may experience issues over time. Should you experience problems, or have any further inquiries or comments, please contact Daisy's customer service department:

Business Phone	(717)932-9999x222
Fax	(717)932-8000
Email	support@makeitdaisy.com

Make it Daisy
DATA DISPLAYS

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www.makeitdaisy.com

Equipment returned to DAISY for service must be accompanied by a valid return merchandise authorization (RMA) number. Anything shipped to DAISY without a valid RMA number will be refused. Please contact customer service for an RMA number; **be prepared to provide model AND serial numbers to help identify your equipment**. Typical I.D label shown below with Serial and Model numbers highlighted.

You may be able to trouble shoot problems yourself. To save time and money, please consult the trouble-shooting guide in this manual.

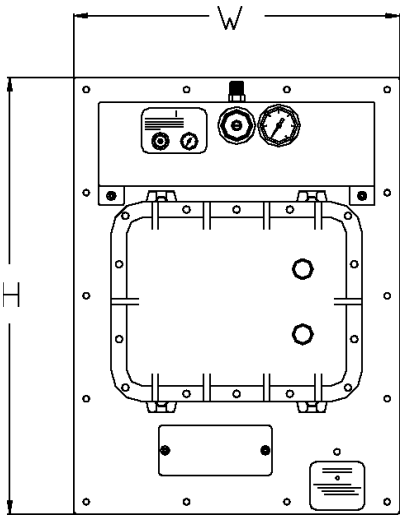
DAISY DATA
displays, inc.
S/N :9016-00-00401
MODEL :9016
AIR PURGED ELECTRONIC EQUIPMENT
MAXIMUM OPERATING TEMPERATURE: T4A
MAXIMUM POWER RATING: 250 WATTS AT 120V, 60HZ
INTERNAL OPERATING PRESSURE: APPROX. 4 TO 40 PSI
WARNING
ENCLOSURE SHALL NOT BE OPENED NOR ANY COVER REMOVED UNLESS THE AREA IS KNOWN TO BE NONHAZARDOUS OR UNLESS THE POWER HAS BEEN REMOVED FROM ALL DEVICES WITHIN THE ENCLOSURE. POWER SHALL NOT BE RESTORED UNTIL AFTER THE ENCLOSURE HAS BEEN PURGED
FOR XX TO XX MINUTES AT 240 TO 40 SCFH, RESPECTIVELY.
TO BE USED WITH INTRINSICALLY SAFE INPUT DEVICES
MODEL NUMBERS:
FOR USE IN CLASS I DIVISION 1,2 GROUP A,B,C,D
CLASS II DIVISION 1,2 GROUP E,F,G
CLASS III DIVISION 1,2
APPROVED FOR:
CLASS I DIVISION 1 GROUP C & D
CLASS II DIVISION 1 GROUP E F & G
CLASS III DIVISION 1
FM
APPROVED
MADE IN THE USA

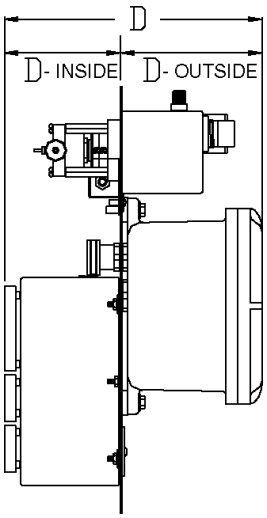
8 Trouble-Shooting Guide

8.1 Division 1 X-Purge Trouble-Shooting

PROBLEM	POSSIBLE CAUSE	SUGGESTED SOLUTION
When power is applied, the purge status indicator light does not come on	Power is not connected to the unit	Connect AC power to the power connection on the purge system. Ensure that the power switch is on. Ensure that AC power is on.
	Improper line voltage selection	Ensure that the 120/240 VAC switch on the purge control is set appropriately for your power source.
After power is applied, the purge status indicator stays solid red; it does not switch to yellow or blink	No air supply to unit	Ensure that a purge gas line is connected to the unit and that the supply line is "on." The pressure gauge on the air-in box should indicate a higher pressure than 20 PSI
	Restrictions in air line	Ensure that supply line and inlet connect have no restrictions and that the supply line is not kinked
	Restrictions in main purge line inside enclosure	Ensure that the main purge line (terminating in a brass tee fitting) is not kinked or disconnected
	Leaks in the enclosure	Ensure that all access doors are closed and latched. Ensure that all access panels are closed and sealed. There should be no holes or openings in the enclosure.
The purge status indicator is yellow, but the enclosure takes an excessively long time to complete the purge (when the status indicator turns green)	Low purge gas supply pressure	Increase purge gas inlet pressure at the air-in regulator or on the main supply line
	Restriction in the main purge line	Ensure that the main purge line within the enclosure (ending in a brass tee fitting) is not kinked or obstructed
Purge status indicator flashes yellow and purge takes an excessively long time to complete.	Low purge gas supply pressure	Increase purge gas inlet pressure at the air-in regulator or on the main supply line
Purge or operation stops and purge status indicator flashes red code	Fatal purge error	See Table 6.1 on page 13&14

9 Specifications





MATERIAL

Purge Control main panel, Interface Box, and all mounting screws ..... 304 Stainless Steel
I/O Casting and lid ..... Cast Aluminum
I/O Casting bolts ..... Iridited Steel

PHYSICAL

Purge Controller ..... 17.5 Height (H)
11.5" Width (W)
10.81" Depth (D)
4.0" D-Inside
5.63" D-Outside
25 lbs.
Interface Box ..... 17.5" Height (H)
11.5" Width (W)
5.0" Depth (D)
5 lbs.

ENVIRONMENTAL

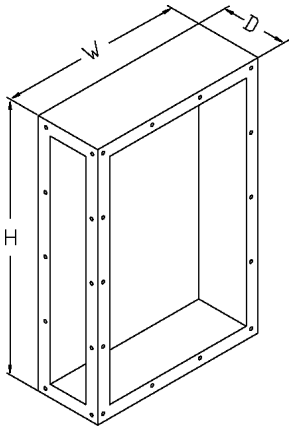
Operating Temperature ..... 32-122°F
Storage Temperature ..... 32-158°F
Relative Humidity ..... 10-95% Non-condensing

ELECTRICAL

Power Usage ..... 5 watts maximum
Switching Capacity (power) ..... 120V/8A or 240V/4A maximum
Switched contacts (signal) 36
Contact ratings ..... 24VDC @ 1A
FCC Class A computing device
Alarm Contacts ..... SPDT
120V/8A or 240V4A Maximum

PRESSURE AND AIR REQUIREMENTS

Incoming Air Pressure (Customer Air Input) ..... 20-60 psi
Operating Pressure ..... 1" - 4" of water column
Air Flow During Purge ..... 40-300 SCFH



CONTROLS MONITORING

Microprocessor based

For current options and for special requirements, consult factory.

10 Drawings

The following is a list of drawings in the order in which they appear:

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E029	DIP switch mounting (DMB) board item location	37
E032	DIP switch mounting (DMB) item location (130 C.F.)	38
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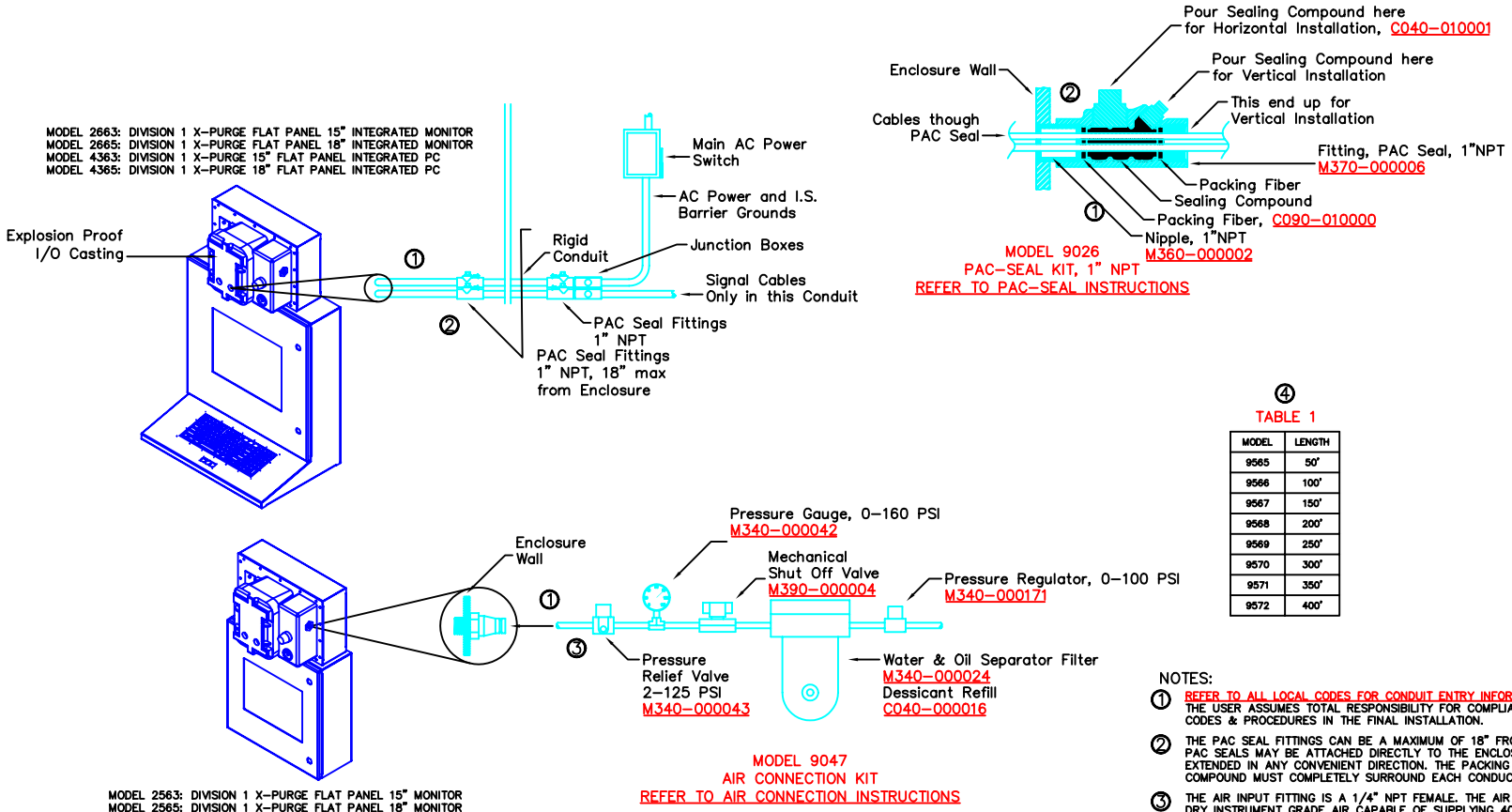
MODEL 2663: DIVISION 1 X-PURGE FLAT PANEL 15" INTEGRATED MONITOR
MODEL 2665: DIVISION 1 X-PURGE FLAT PANEL 18" INTEGRATED MONITOR
MODEL 4363: DIVISION 1 X-PURGE 15" FLAT PANEL INTEGRATED PC
MODEL 4365: DIVISION 1 X-PURGE 18" FLAT PANEL INTEGRATED PC
Explosion Proof I/O Casting
Main AC Power Switch
AC Power and I.S. Barrier Grounds
Rigid Conduit
Junction Boxes
Signal Cables Only in this Conduit
PAC Seal Fittings 1" NPT
PAC Seal Fittings 1" NPT, 18" max from Enclosure
Pour Sealing Compound here for Horizontal Installation, C040-010001
Pour Sealing Compound here for Vertical Installation
This end up for Vertical Installation
Enclosure Wall
Cables though PAC Seal
Fitting, PAC Seal, 1"NPT M370-000006
Packing Fiber
Sealing Compound
Packing Fiber, C090-010000
Nipple, 1"NPT M360-000002
MODEL 9026
PAC-SEAL KIT, 1" NPT
REFER TO PAC-SEAL INSTRUCTIONS
Enclosure Wall
Pressure Gauge, 0-160 PSI M340-000042
Mechanical Shut Off Valve M390-000004
Pressure Regulator, 0-100 PSI M340-000171
Pressure Relief Valve 2-125 PSI M340-000043
Water & Oil Separator Filter M340-000024
Dessicant Refill C040-000016
MODEL 9047
AIR CONNECTION KIT
REFER TO AIR CONNECTION INSTRUCTIONS
MODEL 2563: DIVISION 1 X-PURGE FLAT PANEL 15" MONITOR
MODEL 2565: DIVISION 1 X-PURGE FLAT PANEL 18" MONITOR
MODEL 4563: DIVISION 1 X-PURGE 15" FLAT PANEL PC
MODEL 4565: DIVISION 1 X-PURGE 18" FLAT PANEL PC

④ TABLE 1

MODEL	LENGTH
9565	50'
9566	100'
9567	150'
9568	200'
9569	250'
9570	300'
9571	350'
9572	400'

NOTES:

① REFER TO ALL LOCAL CODES FOR CONDUIT ENTRY INFORMATION! THE USER ASSUMES TOTAL RESPONSIBILITY FOR COMPLIANCE WITH ALL APPLICABLE CODES & PROCEDURES IN THE FINAL INSTALLATION.

② THE PAC SEAL FITTINGS CAN BE A MAXIMUM OF 18" FROM THE ENCLOSURE. PAC SEALS MAY BE ATTACHED DIRECTLY TO THE ENCLOSURE & THE RIGID CONDUIT EXTENDED IN ANY CONVENIENT DIRECTION. THE PACKING FIBER & THE SEALING COMPOUND MUST COMPLETELY SURROUND EACH CONDUCTOR OR CABLE.

③ THE AIR INPUT FITTING IS A 1/4" NPT FEMALE. THE AIR SOURCE MUST BE CLEAN DRY INSTRUMENT GRADE AIR CAPABLE OF SUPPLYING 40 TO 300 SCFH AT 30 - 60 PSI.

④ SEE TABLE 1 FOR THE DAISY DATA CAT5 INPUT CABLE MODEL NUMBER & LENGTH.

DIMENSIONS ARE IN INCHES

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Daisy Data Displays Inc.
2850 Lewisberry Road, York Haven, PA 17370

ELECTRICAL BLOCK DIAGRAM DRAWING

CABLE & CONDUIT ENTRY X-PURGED 15" & 18" ENCL.

DRAWING NUMBER P007 REV. A

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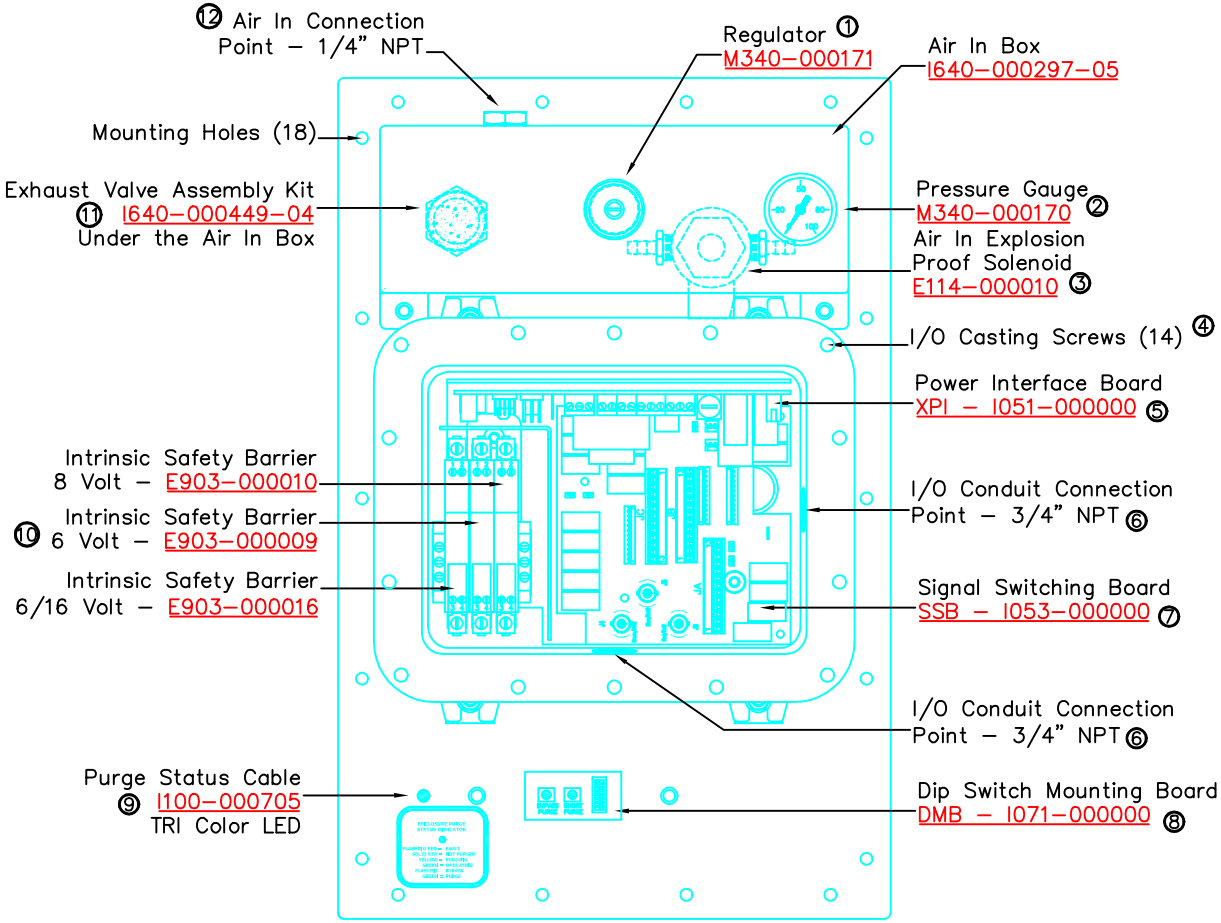
SHEET 1 OF 1



NOTES:

① REGULATOR, 5 – 100 PSI:
THE PRESSURE REGULATOR GIVES THE USER CONTROL OVER THE AIR PRESSURE, & THEREFORE, THE FLOW GOING INTO THE ENCLOSURE. THE PRESSURE SHOULD BE SET BETWEEN 20 & 60 PSI. AN ADJUSTMENT OF 60 PSI WILL GIVE A FLOW RATE OF APPROXIMATELY 300 SCFH WITH AN INTERNAL PRESSURE INSIDE THE ENCLOSURE OF 8" OF WATER COLUMN.

② PRESSURE METER:
READS THE PRESSURE OF THE AIR INPUT FOR THE ENCLOSURE.

③ EXPLOSION PROOF SOLENOID:
THIS ALLOWS THE PURGED AIR INTO THE ENCLOSURE. OPERATES ON +24 Volts DC.

④ I/O CASTING SCREWS:
FOURTEEN 1/4–20, 7/16" hex, BOLTS THAT HOLD THE COVER ON THE CAST ALUMINUM BOX.

⑤ POWER INTERFACE BOARD:
SEE DRAWING "E017" FOR DETAIL INFORMATION.

⑥ I/O CONDUIT CONNECTION:
A 3/4" NPT ENTRANCE INTO THE CAST ALUMINUM BOX. SEE DRAWING "P007" FOR CONDUIT CONNECTION TO THE ENCLOSURE.

⑦ SIGNAL SWITCHING BOARD:
SEE DRAWING "E018" FOR DETAIL INFORMATION.

⑧ DIP SWITCH MOUNTING BOARD:
SEE DRAWING "E020" FOR DETAIL INFORMATION.

⑨ PURGE STATUS CABLE:
THE CABLE, I100–000705, IS THE TRI–COLORED LED STATUS INDICATOR USE TO RELAY INFORMATION TO THE USER. A STEADY RED AT STARTUP INDICATED THE INTERNAL PRESSURE and/or AIR FLOW IS TOO LOW FOR ADEQUATE PURGING. A STEADY YELLOW INDICATES THE PURGE IS IN PROGRESS. A FLASHING YELLOW INDICATES OVERFLOW, THE REGULATOR SHOULD BE TURNED DOWN SLIGHTLY. A STEADY GREEN INDICATES THE PURGE IS COMPLETE. A FLASHING GREEN INDICATES THE PURGED IS BYPASSED. IF AN ERROR OCCURS DURING OR AFTER THE PURGE THE LED WILL FLASH RED IN A CODE.
THE ERROR CODES ARE LISTED BY THE BLINKING OF THE RED LED.
1–1: SYSTEM ERROR, (CONSULT FACTORY)
2–1: UNDER PRESSURE
2–2: OVER PRESSURE
3–2: OVER FLOW
3–3: WATER DETECTED (ONLY WITH WATER COOLER OPTION ON ENCLOSURE)
4–1: FAULTY PRESSURE SENSOR
4–2: FAULTY FLOW SENSOR
4–3: SHORT PURGE BUTTON IS STUCK CLOSED
4–4: PURGE BYPASS BUTTON IS STUCK CLOSED

⑩ INTRINSIC SAFETY BARRIERS:
THE 3 I.S. BARRIERS LIMIT THE CURRENT & VOLTAGE TO A CIRCUIT WHICH MUST OPERATE IN A HAZARDOUS ENVIRONMENT, (THE INSIDE OF THE ENCLOSURE PRIOR TO COMPLETING THE PURGE), TO A LEVEL WHICH ENSURES THAT A SHORT OR FAULT CAN NOT CAUSE A SPARK LARGE ENOUGH TO IGNITE A FLAMMABLE GAS OR VAPOR. ALL SIGNALS & POWER WHICH ENTER OR RETURN FROM THE ENCLOSURE PRIOR TO THE COMPLETION OF THE PURGE MUST BE ISOLATED WITH I.S. BARRIERS.

⑪ EXHAUST VALVE ASSEMBLY KIT:
THIS VALVE OPENS DURING PURGE TO EXHAUST THE PURGE AIR. ONCE THE PURGE IS COMPLETE THE VALVE CLOSES & WILL NOT REOPEN UNLESS THE INTERNAL PRESSURE RISES ABOVE 8" WC OR THE PURGE IS LOST.

⑫ AIR INPUT CONNECTION:
THE ATTACHMENT POINT FOR THE ENCLOSURE'S PURGE AIR IS 1/4" NPT FEMALE FITTING. THE AIR SOURCE MUST BE CLEAN DRY INSTRUMENT GRADE AIR/INERT GAS CAPABLE OF SUPPLYING 40 – 300 SCFH @ 30 – 60 PSI. THE ENCLOSURE IS PURGED AFTER 4 VOLUMES OF AIR HAVE PASSED THOUGH IT. AFTER THE PURGE IS COMPLETE THE SYSTEM WILL REQUIRE ONLY ENOUGH AIR TO MAINTAIN THE ENCLOSURE PRESSURE ABOVE 1.0" OF WC.

DIMENSIONS ARE IN INCHES

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2850 Lewisberry Road, York Haven, PA 17370
ELECTRICAL BLOCK DIAGRAM DRAWING

X–PURGE FRONT PANEL
ITEM LOCATION

DRAWING NUMBER P008 REV. A

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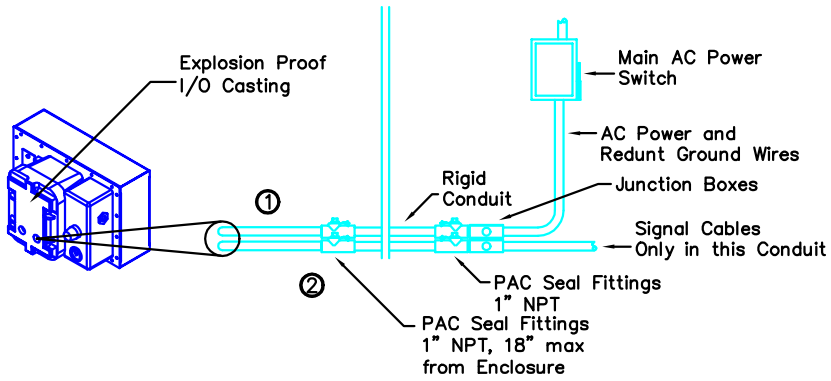
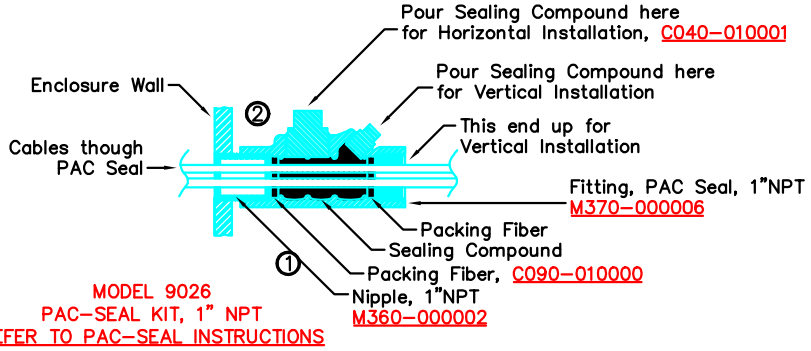
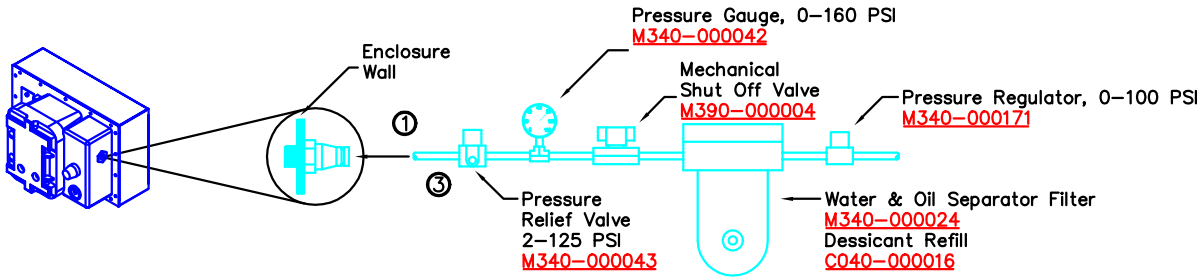




MODEL 9026
PAC-SEAL KIT, 1" NPT
REFER TO PAC-SEAL INSTRUCTIONS



MODEL 9047
AIR CONNECTION KIT
REFER TO AIR CONNECTION INSTRUCTIONS

NOTES:

① REFER TO ALL LOCAL CODES FOR CONDUIT ENTRY INFORMATION!
THE USER ASSUMES TOTAL RESPONSIBILITY FOR COMPLIANCE WITH ALL APPLICABLE CODES & PROCEDURES IN THE FINAL INSTALLATION.

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③ THE AIR INPUT FITTING IS A 1/4" NPT FEMALE. THE AIR SOURCE MUST BE CLEAN DRY INSTRUMENT GRADE AIR CAPABLE OF SUPPLYING 40 TO 300 SCFH AT 30 - 60 PSI.

DIMENSIONS ARE IN INCHES

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Daisy Data Displays Inc.
2850 Lewisberry Road, York Haven, PA 17370
ELECTRICAL INPUT DRAWING

CABLE AND CONDUIT ENTRY
9016 MOUNTED TO ENCLOSURE

DRAWING NUMBER P011 | REV. -

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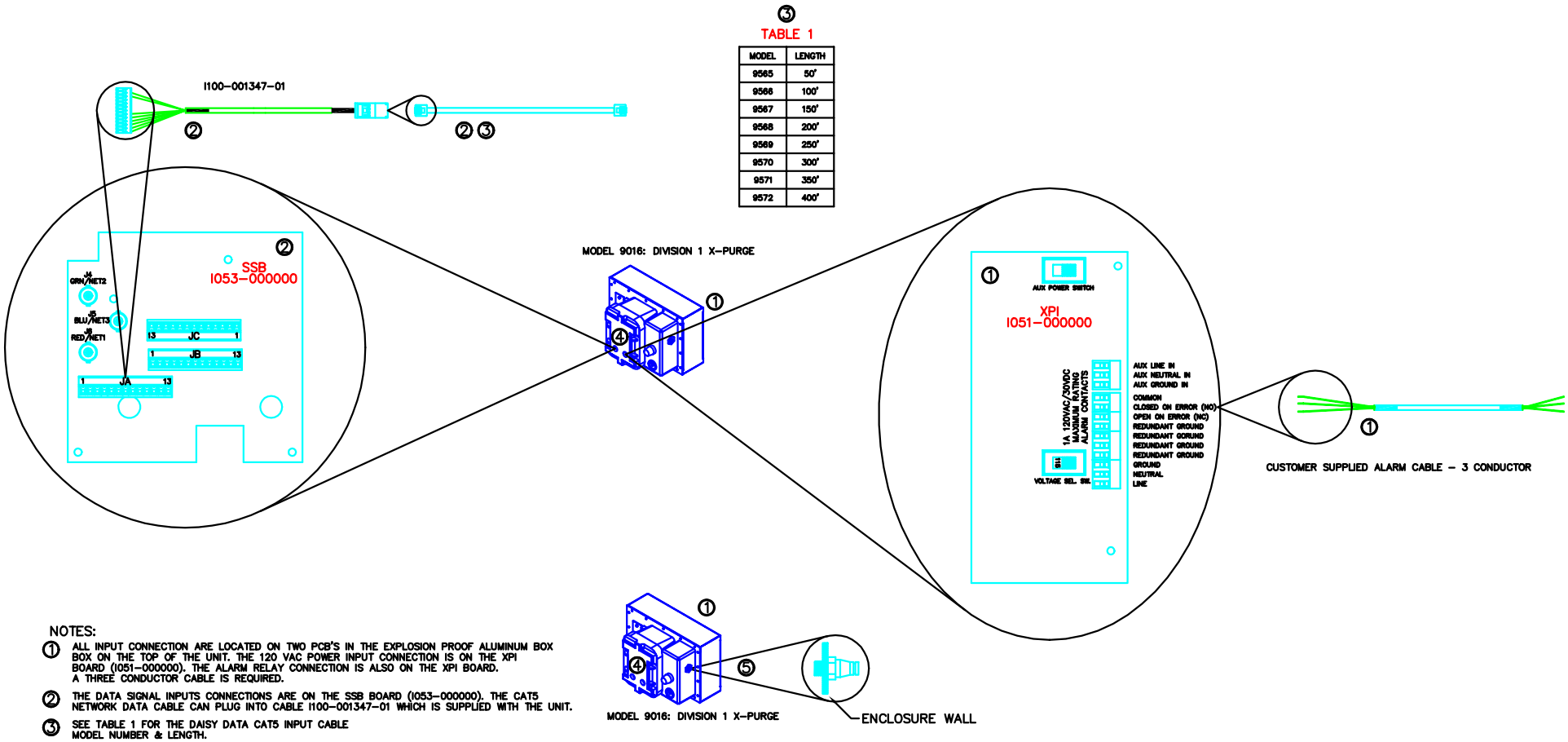
SHEET 1 OF 1



NOTES:

① ALL INPUT CONNECTION ARE LOCATED ON TWO PCB'S IN THE EXPLOSION PROOF ALUMINUM BOX BOX ON THE TOP OF THE UNIT. THE 120 VAC POWER INPUT CONNECTION IS ON THE XPI BOARD (I051–000000). THE ALARM RELAY CONNECTION IS ALSO ON THE XPI BOARD. A THREE CONDUCTOR CABLE IS REQUIRED.

② THE DATA SIGNAL INPUTS CONNECTIONS ARE ON THE SSB BOARD (I053–000000). THE CAT5 NETWORK DATA CABLE CAN PLUG INTO CABLE I100–001347–01 WHICH IS SUPPLIED WITH THE UNIT.

③ SEE TABLE 1 FOR THE DAISY DATA CAT5 INPUT CABLE MODEL NUMBER & LENGTH.

④ FOR CABLE & CONDUIT ENTRY INTO THE ENCLOSURE, REFER TO DRAWING "P011".

⑤ THE AIR INPUT FITTING IS A 1/4" NPT FEMALE. THE AIR SOURCE MUST BE CLEAN DRY INSTRUMENT GRADE AIR CAPABLE OF SUPPLYING 40 TO 300 SCFH AT 30 TO 60 PSI.

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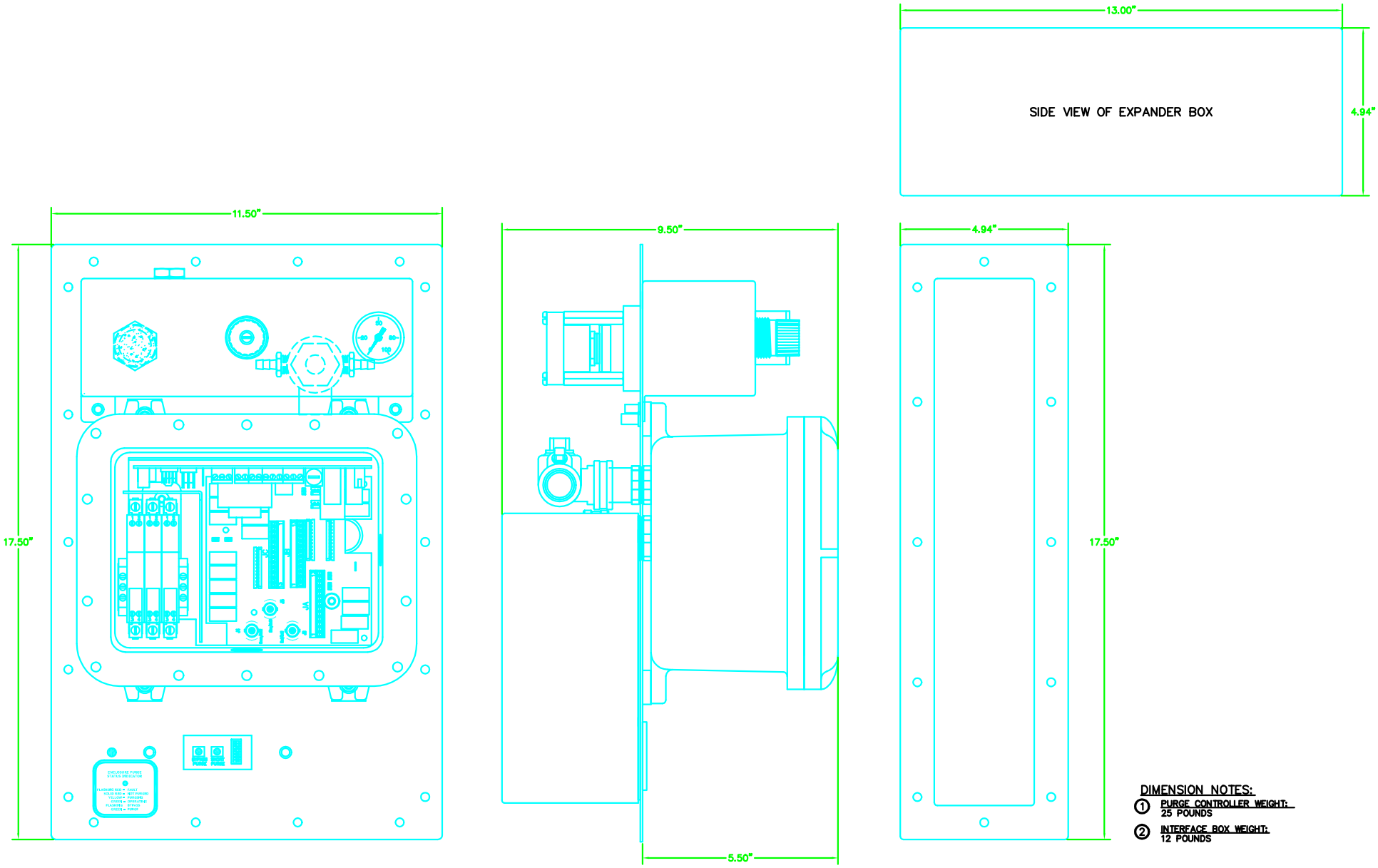
ELECTRICAL INPUT DRAWING

ELECTRICAL INPUT CONNECTIONS FOR THE 9016 X-PURGE

DRAWING NUMBER E030 | REV. --



DIMENSION NOTES:

1. PURGE CONTROLLER WEIGHT: 25 POUNDS
2. INTERFACE BOX WEIGHT: 12 POUNDS

DIMENSIONS ARE IN INCHES

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MECHANICAL ASSEMBLY DRAWING

MODEL 9016 X-PURGE DIMENSIONS

DRAWING NUMBER M015 REV. -

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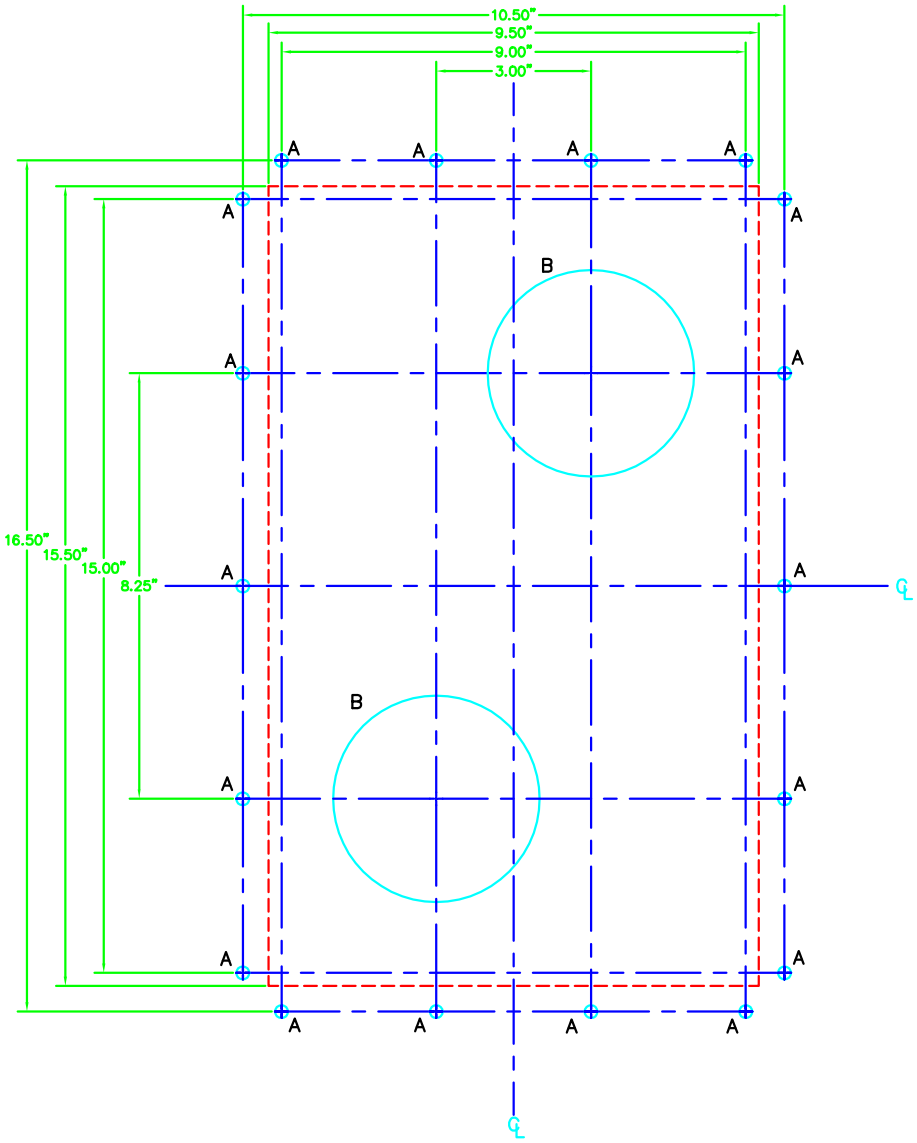
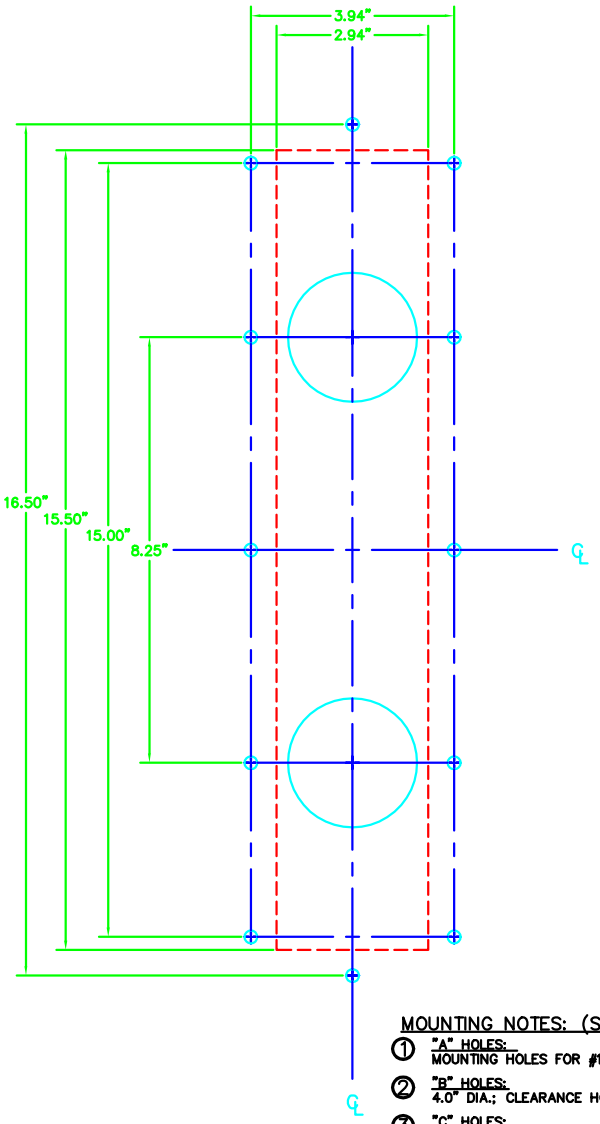
SHEET 1 OF 1

PATTERN A: FOR FLUSH OR EXTENED MOUNTING



PATTERN B: FOR SIDE MOUNTING



MOUNTING NOTES: (SEE DRAWING M016)

1. "A" HOLES:
   MOUNTING HOLES FOR #10 HOLES.
2. "B" HOLES:
   4.0" DIA.; CLEARANCE HOLE FOR CONDUIT AND AIR EXHAUST.
3. "C" HOLES:
   2.50" DIA.; CLEARANCE HOLE FOR CONDUIT AND AIR EXHAUST.
4. CENTER LINE SYMBOL: ℄
5. CUT OUT DIMENSIONS: – – –
   USE RECTANGULAR CUT OUT IF PREFERRED TO THE "B" HOLES.

DIMENSIONS ARE IN INCHES

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MECHANICAL ASSEMBLY DRAWING

MODEL 9016 X-PURGE MOUNTING

DRAWING NUMBER M013 REV. -

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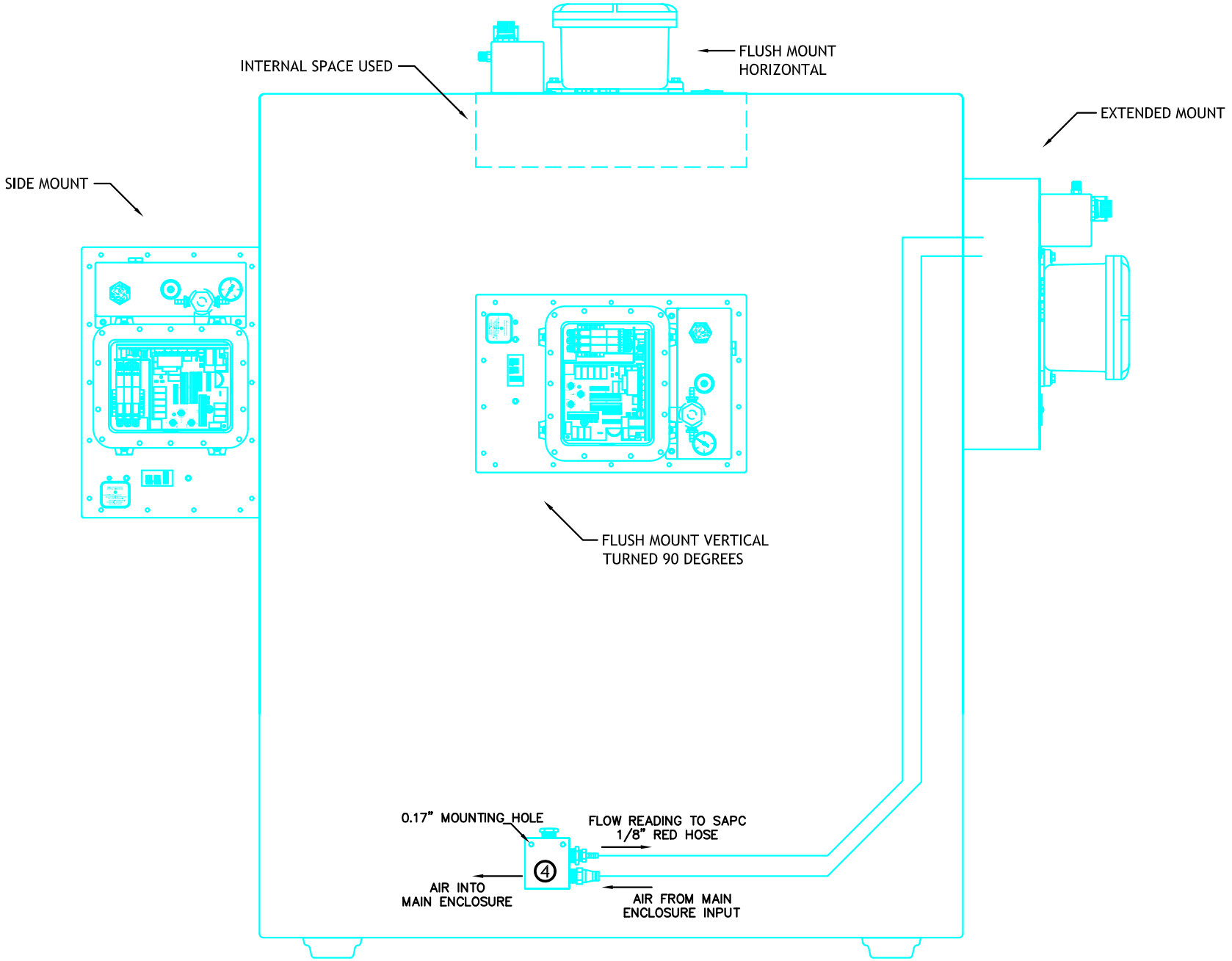
SHEET 1 OF 1



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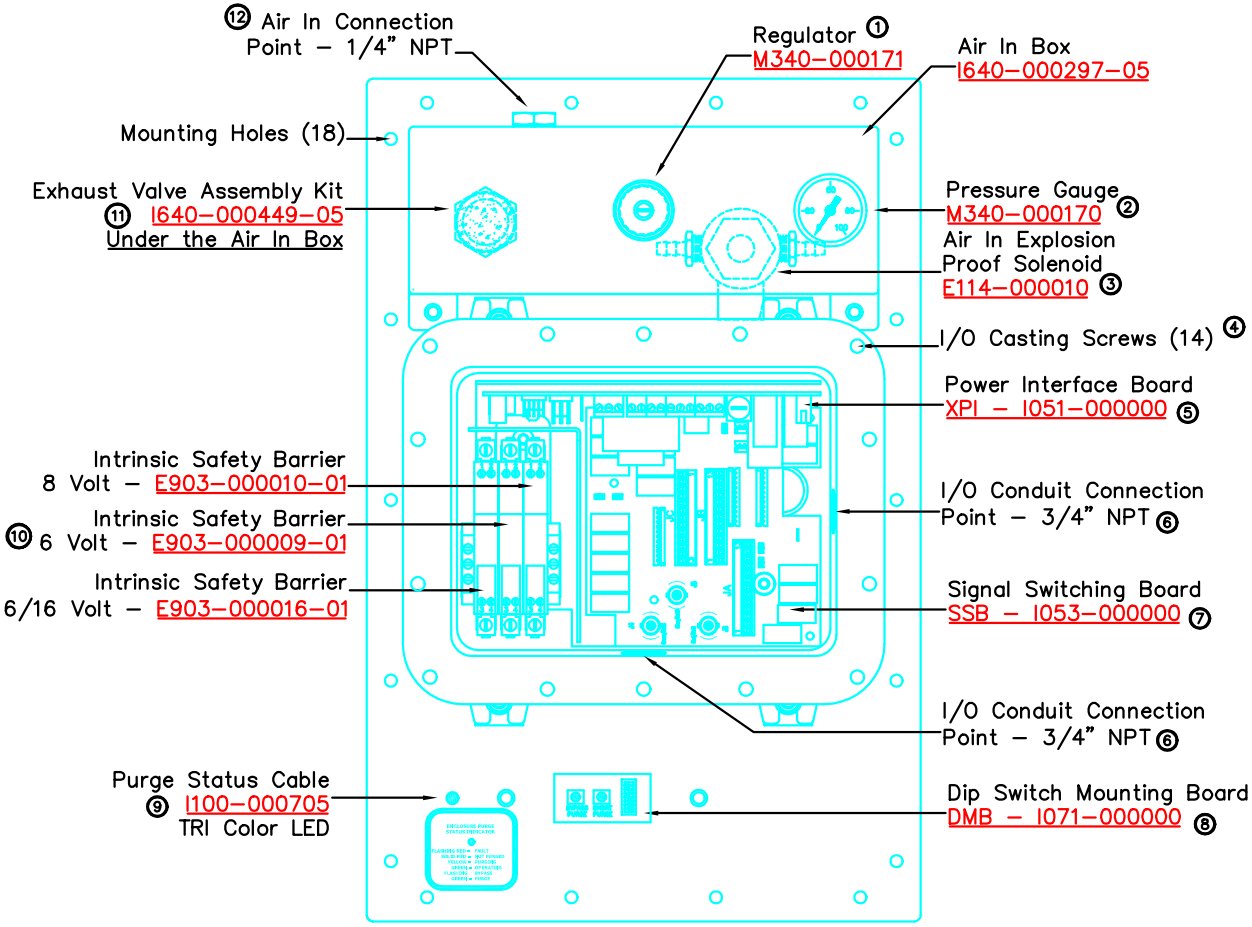
MECHANICAL ASSEMBLY DRAWING

MODEL 9016 X-PURGE
MOUNTING OPTIONS

DRAWING NUMBER M016 | REV. -



NOTES:

① REGULATOR, 5 – 100 PSI:
THE PRESSURE REGULATOR GIVES THE USER CONTROL OVER THE AIR PRESSURE, & THEREFORE, THE FLOW GOING INTO THE ENCLOSURE. THE PRESSURE SHOULD BE SET BETWEEN 20 & 60 PSI. AN ADJUSTMENT OF 60 PSI WILL GIVE A FLOW RATE OF APPROXIMATELY 300 SCFH WITH AN INTERNAL PRESSURE INSIDE THE ENCLOSURE OF 8" OF WATER COLUMN.

② PRESSURE METER:
READS THE PRESSURE OF THE AIR INPUT FOR THE ENCLOSURE.

③ EXPLOSION PROOF SOLENOID:
THIS ALLOWS THE PURGED AIR INTO THE ENCLOSURE. OPERATES ON +24 Volts DC.

④ I/O CASTING SCREWS:
FOURTEEN 1/4–20, 7/16" hex, BOLTS THAT HOLD THE COVER ON THE CAST ALUMINUM BOX.

⑤ POWER INTERFACE BOARD:
SEE DRAWING "E017" FOR DETAIL INFORMATION.

⑥ I/O CONDUIT CONNECTION:
A 3/4" NPT ENTRANCE INTO THE CAST ALUMINUM BOX. SEE DRAWING "P011" FOR CONDUIT CONNECTION TO THE ENCLOSURE.

⑦ SIGNAL SWITCHING BOARD:
SEE DRAWING "E018" FOR DETAIL INFORMATION.

⑧ DIP SWITCH MOUNTING BOARD:
SEE DRAWING "E029" FOR DETAIL INFORMATION.

⑨ PURGE STATUS CABLE:
THE CABLE, I100–000705, IS THE TRI–COLORED LED STATUS INDICATOR USE TO RELAY INFORMATION TO THE USER. A STEADY RED AT STARTUP INDICATED THE INTERNAL PRESSURE and/or AIR FLOW IS TOO LOW FOR ADEQUATE PURGING. A STEADY YELLOW INDICATES THE PURGE IS IN PROGRESS. A FLASHING YELLOW INDICATES OVERFLOW, THE REGULATOR SHOULD BE TURNED DOWN SLIGHTLY. A STEADY GREEN INDICATES THE PURGE IS COMPLETE. A FLASHING GREEN INDICATES THE PURGED IS BYPASSED. IF AN ERROR OCCURS DURING OR AFTER THE PURGE THE LED WILL FLASH RED IN A CODE.
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4–1: FAULTY PRESSURE SENSOR
4–2: FAULTY FLOW SENSOR
4–3: SHORT PURGE BUTTON IS STUCK CLOSED
4–4: PURGE BYPASS BUTTON IS STUCK CLOSED

⑩ INTRINSIC SAFETY BARRIERS:
THE 3 I.S. BARRIERS LIMIT THE CURRENT & VOLTAGE TO A CIRCUIT WHICH MUST OPERATE IN A HAZARDOUS ENVIRONMENT, (THE INSIDE OF THE ENCLOSURE PRIOR TO COMPLETING THE PURGE), TO A LEVEL WHICH ENSURES THAT A SHORT OR FAULT CAN NOT CAUSE A SPARK LARGE ENOUGH TO IGNITE A FLAMMABLE GAS OR VAPOR. ALL SIGNALS & POWER WHICH ENTER OR RETURN FROM THE ENCLOSURE PRIOR TO THE COMPLETION OF THE PURGE MUST BE ISOLATED WITH I.S. BARRIERS.

⑪ EXHAUST VALVE ASSEMBLY KIT:
THIS VALVE OPENS DURING PURGE TO EXHAUST THE PURGE AIR. ONCE THE PURGE IS COMPLETE THE VALVE CLOSES & WILL NOT REOPEN UNLESS THE INTERNAL PRESSURE RISES ABOVE 8" WC OR THE PURGE IS LOST.

⑫ AIR INPUT CONNECTION:
THE ATTACHMENT POINT FOR THE ENCLOSURE'S PURGE AIR IS 1/4" NPT FEMALE FITTING. THE AIR SOURCE MUST BE CLEAN DRY INSTRUMENT GRADE AIR/INERT GAS CAPABLE OF SUPPLYING 40 – 300 SCFH @ 30 – 60 PSI. THE ENCLOSURE IS PURGED AFTER 4 VOLUMES OF AIR HAVE PASSED THOUGH IT. AFTER THE PURGE IS COMPLETE THE SYSTEM WILL REQUIRE ONLY ENOUGH AIR TO MAINTAIN THE ENCLOSURE PRESSURE ABOVE 1.0" OF WC.

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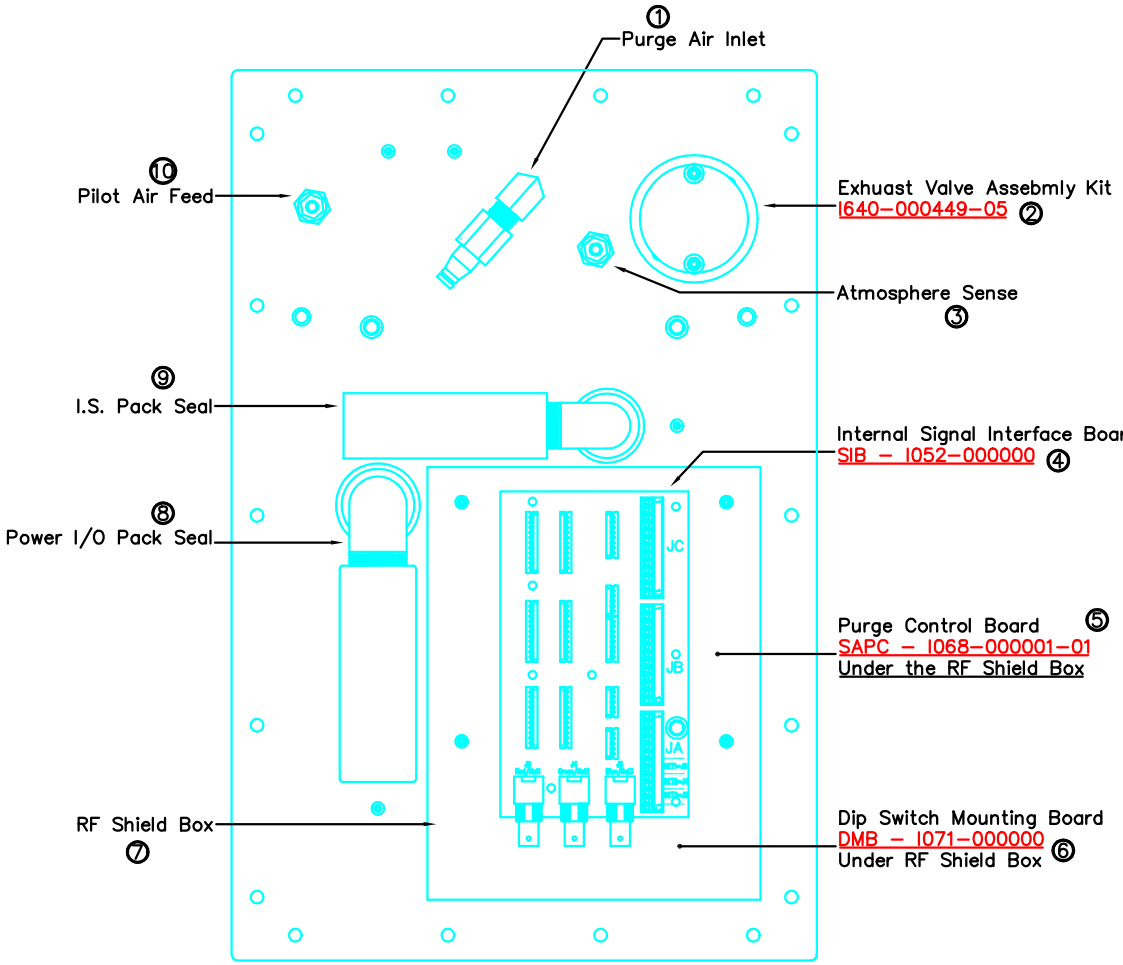
ELECTRICAL BLOCK DIAGRAM DRAWING

9016 X–PURGE FRONT PANEL ITEM LOCATION

DRAWING NUMBER P012

REV. B



NOTES:

① PURGE AIR INLET:
THIS IS THE POINT THE PURGE AIR WILL ENTER THE ENCLOSURE. THE 1/4" TUBE SHOULD BE FREE OF DIRT & KINKS.

② EXHAUST VALVE ASSEMBLY KIT:
THIS VALVE OPENS DURING PURGE TO EXHAUST THE PURGE AIR. ONCE THE PURGE IS COMPLETE THE VALVE CLOSES & WILL NOT REOPEN UNLESS THE INTERNAL PRESSURE RISES ABOVE 8" WC OR THE PURGE IS LOST.

③ ATMOSPHERE SENSE:
ALLOWS THE PRESSURE SENSOR ON THE PURGE CONTROL BOARD TO MEASURE THE DIFFERENTIAL PRESSURE BETWEEN THE ENCLOSURE & THE SURROUNDING ENVIRONMENT.

④ INTERNAL SIGNAL INTERFACE BOARD:
SEE DRAWING "sib" FOR DETAIL INFORMATION

⑤ PURGE CONTROL BOARD:
LOCATED UNDER THE RF SHIELD BOX. SEE DRAWING "sapc" FOR DETAIL INFORMATION.

⑥ DIP SWITCH MOUNTING BOARD:
SEE DRAWING "dmb" FOR DETAIL INFORMATION.

⑦ RF SHIELD BOX:
PROTECTS THE PURGE CONTROL BOARD FROM RF RADIATION THAT WOULD RESET THE PURGE SYSTEM.

⑧ POWER I/O PAC SEAL:
THIS PAC SEAL CONTAINS THE AC POWER CABLE FOR THE INTERNAL EQUIPMENT, +24V CABLE FOR THE SOLENOID & 3 DATA CABLES WITH 6 PAIRS IN EACH CABLE. THE PAC SEAL HAS THE SEALING COMPOUND THOUGH IT'S LENGTH & CAN NOT BE RE-POSISTIONED.

⑨ I.S. PAC SEAL:
THIS PAC SEAL CONTAINS THE INTRINSICALLY SAFE POWER CABLE & THE ENCLOSURE REDUNDANT GROUND WIRES. THE PAC SEAL HAS THE SEALING COMPOUND THOUGH IT'S LENGTH & CAN NOT BE RE-POSISTIONED.

⑩ PILOT AIR FEED:
THIS AIR LINE PROVIDES THE PILOT PRESSURE FOR THE EXHAUST SOLENOID.

DIMENSIONS ARE IN INCHES

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ITEM LOCATION DIAGRAM DRAWING

9016 X-PURGE BACK PANEL ITEM LOCATION

DRAWING NUMBER P013 REV. A

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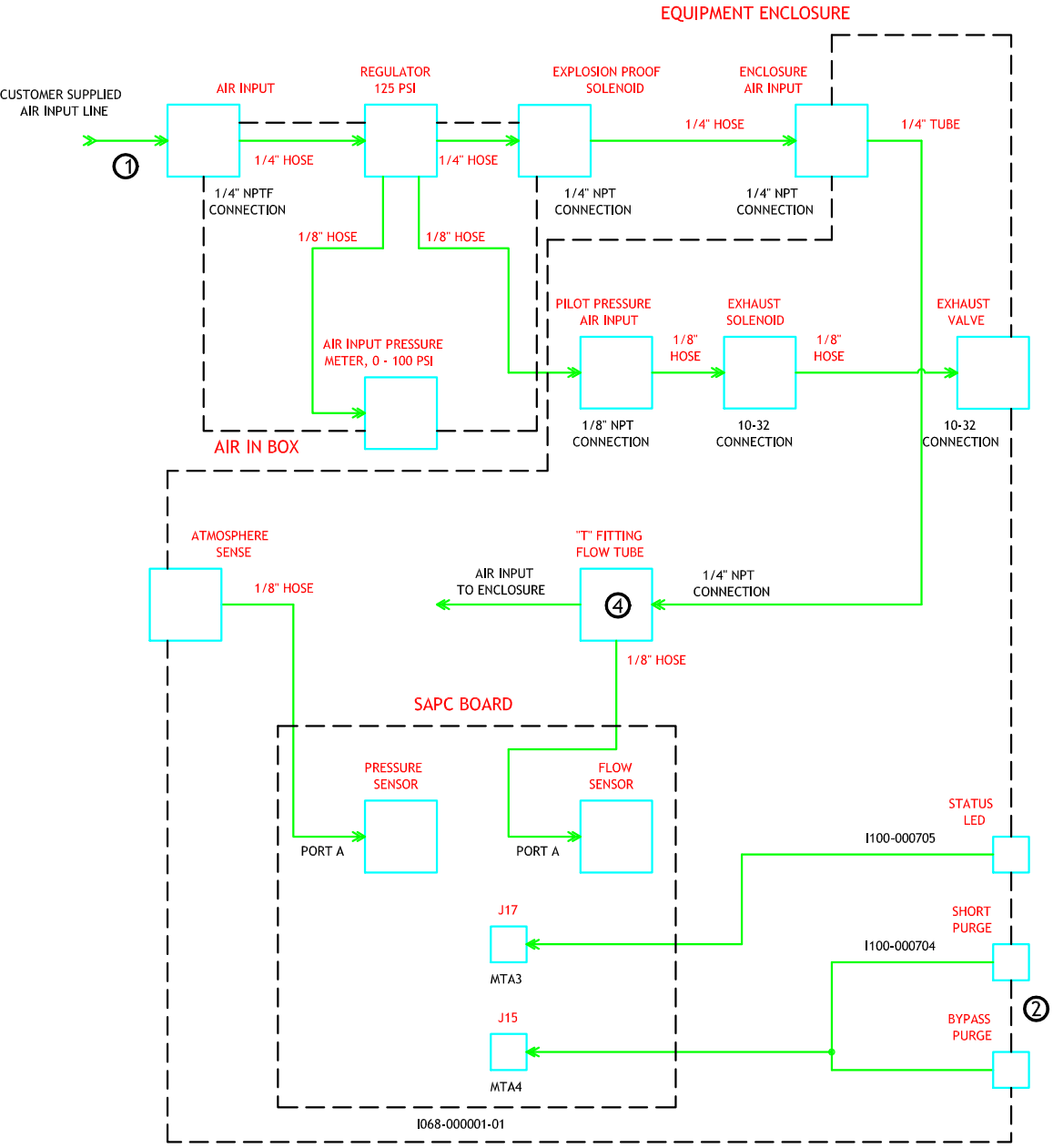
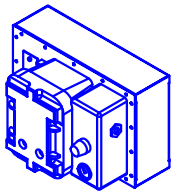
SHEET 1 OF 1

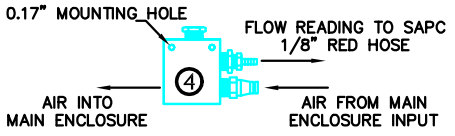




MODEL 9016: DIVISION 1 X-PURGE

NOTES:

1. THE AIR INPUT FITTING IS A 1/4" NPF FEMALE. THE AIR SOURCE MUST BE CLEAN, DRY INSTRUMENT GRADE AIR CAPABLE OF SUPPLYING 40 TO 300 SCFH AT 30 TO 60 PSI.
2. THE SHORT & BYPASS PURGE SWITCHES ARE LOCATED UNDER THE 4.5" x 2" COVER ON THE LEFT OF THE PURGE PANEL.
3. FOR CABLE & CONDUIT ENTRY INTO THE ENCLOSURE, REFER TO DRAWING "P011".
4. USE CARE WHEN INSTALLING THE "FLOW TUBE" FITTING. THE HOSE AND TUBE LENGTH SENT FROM THE FACTORY CAN NOT BE CHANGED. MOUNT THE "FLOW TUBE" INSIDE THE ENCLOSURE, SO THE HOSE AND TUBE ARE NOT BLOCKED OR BENT. THE AIR OUTPUT INTO THE ENCLOSURE NEEDS 6" TO 8" OF CLEAR SPACE TO WORK PROPERLY. USE A #6 SCREW THAT IS 1.5" LONG TO MOUNT.



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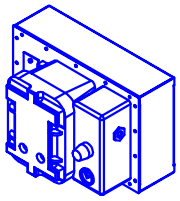
Daisy Data Displays Inc.
2850 Lewisberry Road, York Haven, PA 17370

PNEUMATIC BLOCK DIAGRAM DRAWING

STAND ALONE X-PURGE PNEUMATIC BLOCK DIAGRAM

DRAWING NUMBER P014 REV. -



MODEL 9016: DIVISION 1 X-PURGE

FRONT PANEL
EXTERNAL EQUIPMENT (IN CAST ALUMINUM BOX).

BACK PANEL
INTERNAL EQUIPMENT

EXP. PROOF SOLENOID
+24V
D.D. P/N: E114-000010
D.D. P/N: I100-000383-02

EXHAUST SOLENOID
+24V
D.D. P/N: I100-000706-02
D.D. P/N: E114-000008

PURGE STATUS LED
D.D. P/N: I100-000705-01

CUSTOMER SUPPLIED INPUTS
120VAC MAIN INPUT
120VAC AUX INPUT
ALARM CONTACTS
BARRIER GROUNDS

XPI BOARD
D.D. P/N: I051-000000

I.S. POWER
BARRIER GND's

I.S. BARRIERS 6V, 8V, 6/16V
D.D. P/N's: E903-000009-01
E903-000010-01, E903-000016-01

I.S. POWER
D.D. P/N: I100-000781-02

BARRIER GND's
D.D. P/N: I100-000386-01

I.S. PAC-SEAL
D.D. P/N: I640-000295

I.S. POWER
D.D. P/N: I100-000781-01

SAPC BOARD
+24V
D.D. P/N: I068-000001-01

DMB BOARD
SHORT
BYPASS
D.D. P/N: I071-000000

D.D. P/N: I100-000704

① D.D. P/N: I100-000610

D.D. P/N: I100-000380-02

D.D. P/N: I100-000831

D.D. P/N: I100-00386-01

BARRIER GND's

120V AC POWER

D.D. P/N: I100-00831

D.D. P/N: I100-00380-02

D.D. P/N: I100-001169

CUSTOMER SUPPLIED INPUTS
+24V
CAT5 NETWORK
D.D. P/N: I100-001347-01
RJ45
INPUT DATA, 6 PAIR
INPUT DATA, 6 PAIR

SSB BOARD
D.D. P/N: I053-000000

120VAC
+24V
CAT5 NETWORK
DATA
DATA

SIGNAL PAC-SEAL
D.D. P/N: I640-000863-01

D.D. P/N: I100-001520

CAT5 NETWORK
DATA
DATA

SIB BOARD
D.D. P/N: I052-000000

CAT5 NETWORK
DATA
DATA

D.D. P/N: I100-001089-01

D.D. P/N: I100-001089-01

NOTES:
① FOR CABLE & CONDUIT ENTRY INTO THE ENCLOSURE, REFER TO DRAWING "P011".
② REFER TO INDIVIDUAL CIRCUIT BOARD PAGES FOR DETAILED INFORMATION.

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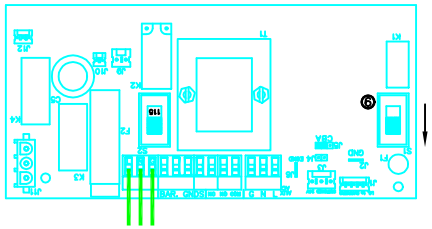
ELECTRICAL BLOCK DIAGRAM DRAWING

STAND ALONE X-PURGED
ELECTRICAL BLOCK DIAGRAM

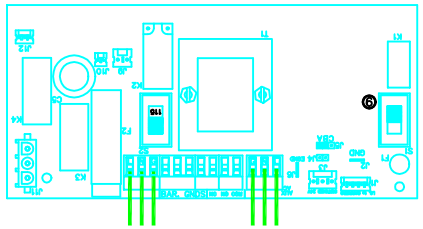
DRAWING NUMBER E028 REV. A

① OPTION #1



AC POWER INPUT
to BOTH PURGE CONTROL
INTERNAL EQIPMENT

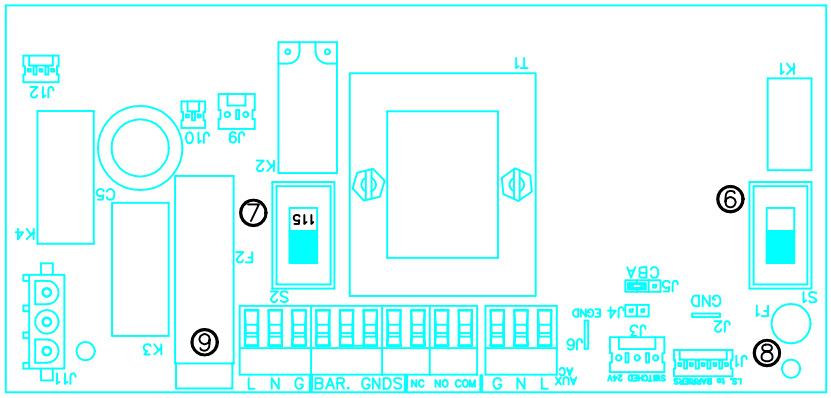
④ OPTION #2



AC POWER INPUT
to INTERNAL
EQUIPMENT ONLY

AC POWER INPUT
to PURGE CONTROL
from U.P.S.

INNER EDGE OF BOARD



① ② ③ ④

OUTER EDGE OF BOARD

1051–000000
POWER INTERFACE BOARD

NOTES:

① MAIN AC POWER INPUT:
THE CONNECTION POINT FOR THE CUSTOMER SUPPLIED 115/230 VAC. THIS INPUT LINE WILL SUPPLY THE INTERNAL EQUIPMENT WITH AC POWER WHEN THE ENCLOSURE IS SAFELY PURGED. IT CAN ALSO SUPPLY VOLTAGE TO RUN THE PURGE SYSTEM IF S1 IS CLOSED (TO OUTER EDGE OF BOARD). SEE OPTION #1.

② BARRIER GROUNDS:
THE CONNECTION POINT FOR THE INTRINSIC SAFETY BARRIERS MOUNTING RAIL GROUND. TWO OF THE FOUR CONNECTIONS WILL BE MADE BY DAISY DATA. THE OTHER TWO MUST BE CONNECTED TO WITHIN 1 OHM OF TRUE EARTH GROUND.

③ ALARM RELAY:
THE CONNECTION POINT FOR AN EXTERNAL ALARM. THE CURRENT RATING FOR THIS IS 10 AMPS. THE "NC" CONTACT IS OPEN WHEN THE PURGE CYCLE IS COMPLETE OR IN BYPASS MODE. THE "NO" CONTACT IS CLOSED WHEN THE PURGE CYCLE IS COMPLETE OR IN BYPASS MODE.

④ AUXILIARY AC POWER INPUT:
THE CONNECTION POINT FOR THE CUSTOMER SUPPLIED 115/230 VAC. THIS INPUT WILL PROVIDE VOLTAGE TO RUN THE PURGE SYSTEM WHEN S1 IS OPEN (TO THE INNER EDGE OF THE BOARD). THIS MAY BE CONNECTED TO AN UNINTERRUPTABLE POWER SUPPLY IN A SAFE AREA. THIS WILL ENSURE THE PURGE IS NOT LOST DURING SHORT POWER FAILURES. SEE OPTION #2.

⑤ TO INSERT WIRES INTO THE CONNECTORS SUPPLIED FOR MAIN AC POWER, BARRIER GROUNDS, ALARM RELAY & AUXILIARY AC POWER, STRIP THE WIRE INSULATION OFF 1/4" & TIN. UNSCREW THE TERMINAL UNTIL THE WIRE WILL FIT IN & SCREW TILL THE WIRE IS SECURE.

⑥ S1:
S1 SHOULD BE OPEN (TO THE INNER EDGE OF THE BOARD) WHEN USING THE AUXILIARY POWER CONNECTION. S1 SHOULD BE CLOSED (TO THE OUTER EDGE OF THE BOARD) WHEN USING THE MAIN AC POWER CONNECTION FOR BOTH THE PURGE CONTROL & INTERNAL AC POWER.

⑦ S2:
THIS IS THE INPUT VOLTAGE SELECTOR SWITCH FOR BOTH THE MAIN & AUXILIARY INPUTS. IT IS FOR 115 OR 230 VAC.

⑧ F1:
THIS IS A 0.5A @ 115V OR A 0.25A @ 230V FUSE. F1 CONTROLS THE I.S. POWER TO THE PURGE CONTROL BOARD.

⑨ F2:
THIS IS A 10A @ 115V OR A 5A @ 230V FUSE. F2 CONTROLS THE AC POWER TO THE INTERNAL EQUIPMENT.

DIMENSIONS ARE IN INCHES	Daisy Data Displays Inc.	POWER INTERFACE BOARD ITEM LOCATION	
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SIGNAL SWITCHING BOARD and INTERNAL SIGNAL INTERFACE BOARD CONNECTIONS

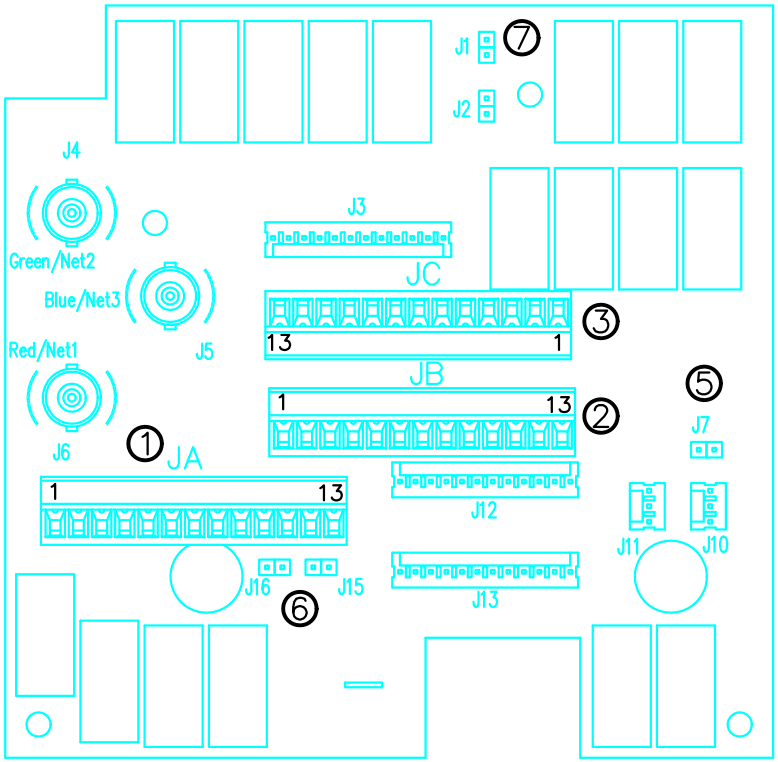
SSB			PAC-SEAL	SIB				
JA	**J13**	**BNC**	**Wire Color**	**J13**	**J10**	**J11/14**	**BNC**	**JA**
1	12		WHITE/ORANGE	12	1	J11-1		1
2	11		ORANGE/WHITE	11	2	J11-2		2
3	10		WHITE/GREEN	10	3	J11-3		3
4	9		GREEN/WHITE	9	4	J11-4		4
5	8		WHITE/BLUE	8	5	J11-5		5
6	7		BLUE/WHITE	7	6	J11-6		6
7	6	J6 center	GREEN	6	7	J14-1	J6 center	7
8	5	J6 shield	YELLOW	5	8	J14-2	J6 shield	8
9	4	J4 center	RED	4	9	J14-3	J4 center	9
10	3	J4 shield	BLACK	3	10	J14-4	J4 shield	10
11	2	J5 center	WHITE/BROWN	2	11	J14-5	J5 center	11
12	1	J5 shield	BROWN/WHITE	1	12	J14-6	J5 shield	12
13			GROUND					13
JB	**J12**	**BNC**	**Wire Color**	**J12**	**J7**	**J8/9**	**BNC**	**JB**
1	12		BLUE/RED	12	1	J9-1		1
2	11		RED/BLUE	11	2	J9-2		2
3	10		WHITE/BLUE	10	3	J9-3		3
4	9		BLUE/WHITE	9	4	J9-4		4
5	8		WHITE/GREEN	8	5	J9-5		5
6	7		GREEN/WHITE	7	6	J9-6		6
7	6		WHITE/ORANGE	6	7	J9-7		7
8	5		ORANGE/WHITE	5	8	J9-8		8
9	4		ORANGE/RED	4	9	J9-9		9
10	3		RED/ORANGE	3	10	J8-1		10
11	2		WHITE/BROWN	2	11	J8-2		11
12	1		BROWN/WHITE	1	12	J8-3		12
13			GROUND					13
JC	**J3**	**BNC**	**Wire Color**	**J3**	**J10**	**J2/8**	**BNC**	**JC**
1	12		BLUE/RED	12	1	J8-4		1
2	11		RED/BLUE	11	2	J8-5		2
3	10		WHITE/BLUE	10	3	J8-6		3
4	9		BLUE/WHITE	9	4	J2-1		4
5	8		WHITE/GREEN	8	5	J2-2		5
6	7		GREEN/WHITE	7	6	J2-3		6
7	6		WHITE/ORANGE	6	7	J2-4		7
8	5		ORANGE/WHITE	5	8	J2-5		8
9	4		ORANGE/RED	4	9	J2-6		9
10	3		RED/ORANGE	3	10	J2-7		10
11	2		WHITE/BROWN	2	11	J2-8		11
12	1		BROWN/WHITE	1	12	J2-9		12
13			GROUND					13

Grey shaded connections are terminated by D.D.

Green shaded wires are the regular twisted pairs

Blue shaded wires are CAT5 cables

Red shaded wires are hook-up wire



1053–000000
SIGNAL SWITCHING BOARD

NOTES:

① JA:
JA IS CONNECTED TO J13 ONE TO ONE. SEE THE SSB–SIB CONNECTION TABLE FOR A MORE DETAILED PIN–OUT. J13 IS CONNECTED TO JA ON THE INTERNAL SIGNAL INTERFACE BOARD THOUGH THE PAC–SEAL.

② JB:
JB IS CONNECTED TO J12 ONE TO ONE. SEE THE SSB–SIB CONNECTION TABLE FOR A MORE DETAILED PIN–OUT. J12 IS CONNECTED TO JB ON THE INTERNAL SIGNAL INTERFACE BOARD THOUGH THE PAC–SEAL.

③ JC:
JC IS CONNECTED TO J13 ONE TO ONE. SEE THE SSB–SIB CONNECTION TABLE FOR A MORE DETAILED PIN–OUT. J3 IS CONNECTED TO JC ON THE INTERNAL SIGNAL INTERFACE BOARD THOUGH THE PAC–SEAL.

④ TO INSERT WIRES INTO THE CONNECTORS SUPPLIED AT JA, JB & JC, STRIP THE WIRE INSULATION OFF 1/4" & TIN. UNSCREW THE TERMINAL UNTIL THE WIRE WILL FIT IN & SCREW TILL THE WIRE IS SECURE.

⑤ J7:
SHORT WHEN NET3 (J5) IS USED FOR ARCNET.

⑥ J15 & J16:
SHORT BOTH WHEN NET1 (J6) & NET2 (J4) ARE USED FOR THINNET.

⑦ J1 & J2:
FOR ARCNET NETWORK LOOPBACK.
CONSULT FACTORY FOR MORE INFOMATION.

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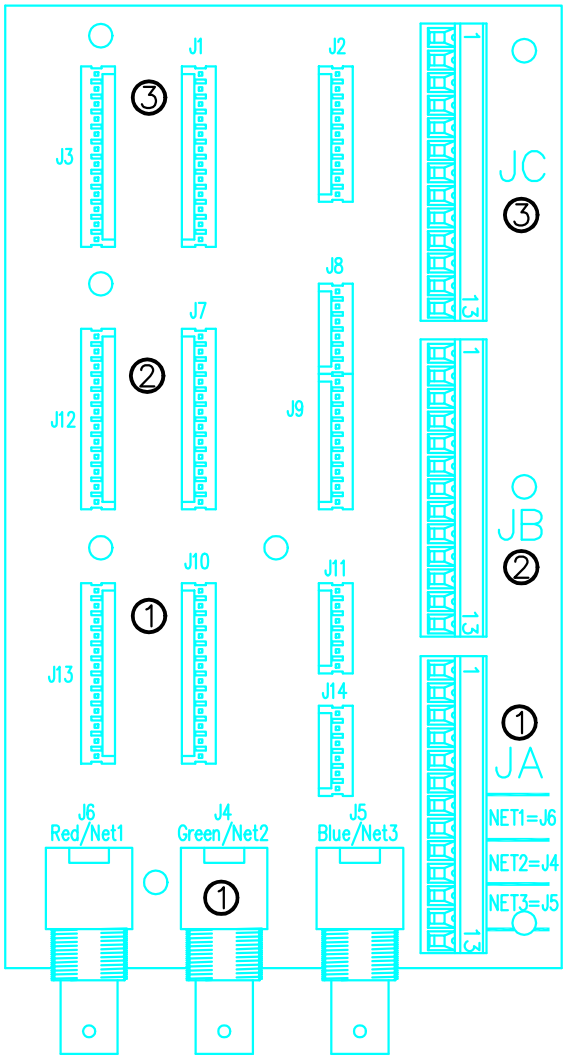
2850 Lewisberry Road, York Haven, PA 17370

ITEM LOCATION DIAGRAM DRAWING

SIGNAL SWITCHING BOARD ITEM LOCATION

DRAWING NUMBER E018

REV. A



I052-000000
INTERNAL SIGNAL INTERFACE BOARD

NOTES:

1. JA:
JA IS CONNECTED TO J13 ONE TO ONE. SEE THE SSB-SIB CONNECTION TABLE FOR A MORE DETAILED PIN-OUT. J13 IS CONNECTED TO JA ON THE SIGNAL SWITCHING BOARD THOUGH THE PAC-SEAL.

2. JB:
JB IS CONNECTED TO J12 ONE TO ONE. SEE THE SSB-SIB CONNECTION TABLE FOR A MORE DETAILED PIN-OUT. J12 IS CONNECTED TO JB ON THE SIGNAL SWITCHING BOARD THOUGH THE PAC-SEAL.

3. JC:
JC IS CONNECTED TO J13 ONE TO ONE. SEE THE SSB-SIB CONNECTION TABLE FOR A MORE DETAILED PIN-OUT. J3 IS CONNECTED TO JC ON THE SIGNAL SWITCHING BOARD THOUGH THE PAC-SEAL.

4. TO INSERT WIRES INTO THE CONNECTORS SUPPLIED AT JA, JB & JC, STRIP THE WIRE INSULATION OFF 1/4" & TIN. UNSCREW THE TERMINAL UNTIL THE WIRE WILL FIT IN & SCREW TILL THE WIRE IS SECURE.

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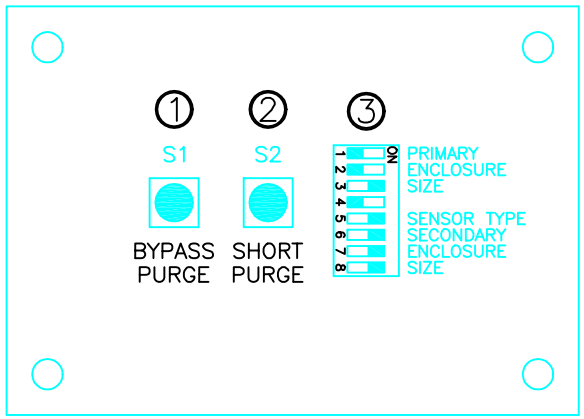
2850 Lewisberry Road, York Haven, PA 17370

ITEM LOCATION DIAGRAM DRAWING

INTERNAL SIGNAL INTERFACE BOARD ITEM LOCATION

DRAWING NUMBER E019

REV. -



I071-000000
DIP SWITCH MOUNTING BOARD

NOTES:

① BYPASS PURGE:
THIS TEST MUST BE DONE IN A SAFE ENVIRONMENT! BYPASS PURGE IS FOR TEST ONLY!
THE PURGE CONTROL SYSTEM IS COMPLETELY BYPASSED & THE ISOLATION RELAYS CLOSE IMMEDIATELY, APPLYING POWER & SIGNALS TO ANY CONNECTED INTERNAL ELECTRONICS. THE PURGE STATUS LED ON THE FRONT PANEL WILL BE ILLUMINATED FLASHING GREEN. NO PURGE AIR IS REQUIRED. REMOVE MAIN AC POWER. PRESS & HOLD THE BYPASS PURGE SWITCH & APPLY MAIN POWER IN TO THE XPI BOARD (SEE NOTES 1 & 4 ON DRAWING "E017"). THEN RELEASE THE SWITCH WITHIN 30 SECONDS. NOW THE UNIT IS IN BYPASS PURGE.
THE UNIT'S INTERNAL ENVIRONMENT WILL NOT BE SAFE UNLESS A NORMAL PURGE CYCLE IS DONE.

② SHORT PURGE SWITCH:
THIS TEST MUST BE DONE IN A SAFE ENVIRONMENT! SHORT PURGE IS FOR TEST ONLY!
THE PURGE CONTROL SYSTEM WILL SET THE PURGE TIME TO 30 SECONDS REGARDLESS OF THE SETTING ON THE ENCLOSURE SIZE SELECT DIP SWITCHES. THE PURGE WILL THEN CONTINUE AS NORMAL. THE PURGE STATUS LED WILL BE ILLUMINATED GREEN. PURGE AIR IS REQUIRED. REMOVE MAIN AC POWER IN. PRESS & HOLD THE SHORT PURGE SWITCH & APPLY MAIN POWER IN TO THE XPI BOARD (SEE NOTES 1 & 4 ON DRAWING "E017"). THEN RELEASE THE SWITCH WITHIN 30 SECOND . CLOSE THE SWITCH COVER & THE ENCLOSURE DOOR. APPLY AIR TO THE PURGE SYSTEM. THE UNIT IS NOW OPERATING NORMALLY.
THE UNIT'S INTERNAL ENVIRONMENT WILL NOT BE SAFE UNLESS A NORMAL PURGE CYCLE IS DONE.

③ ENCLOSURE SIZE DIP SWITCHES:
THE DIP SWITCHES CONTROL THE TIMING OF THE NORMAL PURGE CYCLE. FOR BOTH THE 15" & 18" DISPLAY MODELS THE PURGE TIME WILL BE 8 MINUTES. THE FOLLOW ARE THE CORRECT SETTINGS OF THE SWITCHES.
1: OFF
2: OFF
3: ON
4: OFF
5: ON
6: ON
7: ON
8: ON

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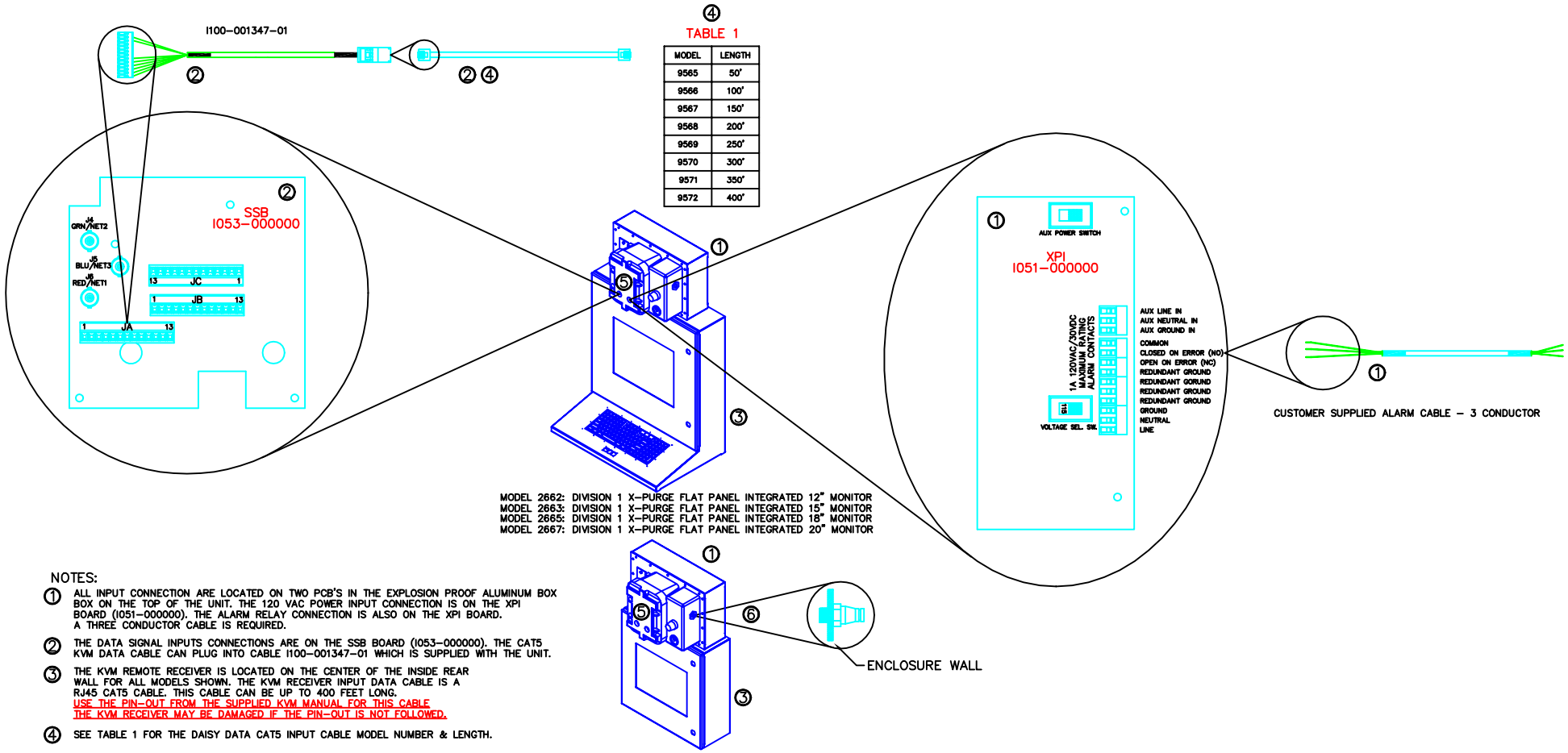
2850 Lewisberry Road, York Haven, PA 17370

ELECTRICAL BLOCK DIAGRAM DRAWING

DIP SWITCH MOUNTING (DMB) BOARD ITEM LOCATION

DRAWING NUMBER E020

REV. B



NOTES:

① ALL INPUT CONNECTION ARE LOCATED ON TWO PCB'S IN THE EXPLOSION PROOF ALUMINUM BOX BOX ON THE TOP OF THE UNIT. THE 120 VAC POWER INPUT CONNECTION IS ON THE XPI BOARD (I051-000000). THE ALARM RELAY CONNECTION IS ALSO ON THE XPI BOARD. A THREE CONDUCTOR CABLE IS REQUIRED.

② THE DATA SIGNAL INPUTS CONNECTIONS ARE ON THE SSB BOARD (I053-000000). THE CAT5 KVM DATA CABLE CAN PLUG INTO CABLE I100-001347-01 WHICH IS SUPPLIED WITH THE UNIT.

③ THE KVM REMOTE RECEIVER IS LOCATED ON THE CENTER OF THE INSIDE REAR WALL FOR ALL MODELS SHOWN. THE KVM RECEIVER INPUT DATA CABLE IS A RJ45 CAT5 CABLE. THIS CABLE CAN BE UP TO 400 FEET LONG.
USE THE PIN-OUT FROM THE SUPPLIED KVM MANUAL FOR THIS CABLE
THE KVM RECEIVER MAY BE DAMAGED IF THE PIN-OUT IS NOT FOLLOWED.

④ SEE TABLE 1 FOR THE DAISY DATA CAT5 INPUT CABLE MODEL NUMBER & LENGTH.

⑤ FOR CABLE & CONDUIT ENTRY INTO THE ENCLOSURE, REFER TO DRAWING "P007".

⑥ THE AIR INPUT FITTING IS A 1/4" NPT FEMALE. THE AIR SOURCE MUST BE CLEAN DRY INSTRUMENT GRADE AIR CAPABLE OF SUPPLYING 40 TO 300 SCFH AT 30 TO 60 PSI.

⑦ MODELS WITH THE "NO KVM INSTALLED" OPTION REQUIRE SVGA VIDEO TO CONNECT TO THE THREE BNC'S (RED, GREEN & BLUE) ON THE SSB BOARD.

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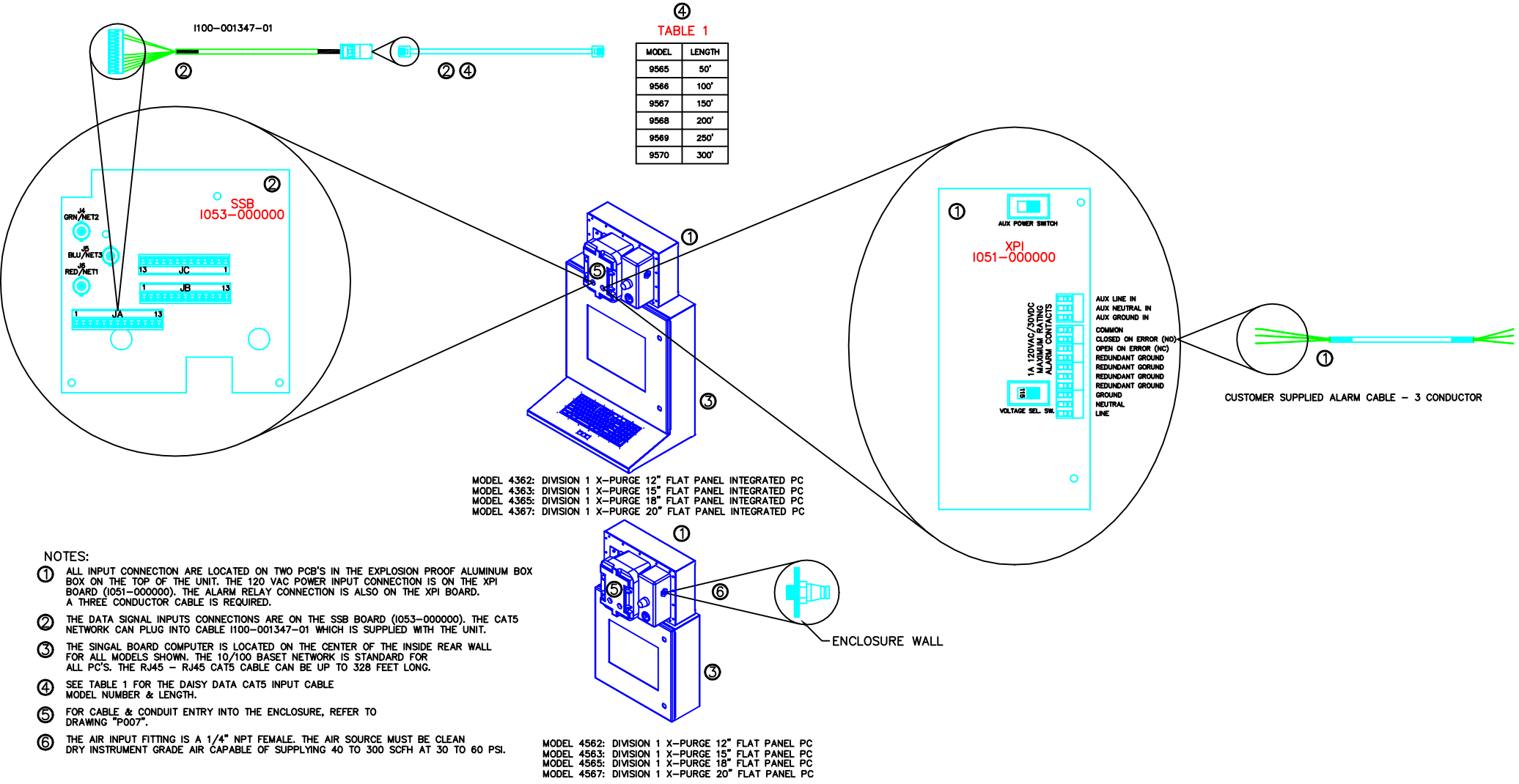
ELECTRICAL BLOCK DIAGRAM DRAWING

CONNECTIONS FOR REMOTE X-PURGED ENCLOSURES

DRAWING NUMBER E022 | REV. -



MODEL 4362: DIVISION 1 X-PURGE 12" FLAT PANEL INTEGRATED PC
MODEL 4363: DIVISION 1 X-PURGE 15" FLAT PANEL INTEGRATED PC
MODEL 4365: DIVISION 1 X-PURGE 18" FLAT PANEL INTEGRATED PC
MODEL 4367: DIVISION 1 X-PURGE 20" FLAT PANEL INTEGRATED PC

MODEL 4562: DIVISION 1 X-PURGE 12" FLAT PANEL PC
MODEL 4563: DIVISION 1 X-PURGE 15" FLAT PANEL PC
MODEL 4565: DIVISION 1 X-PURGE 18" FLAT PANEL PC
MODEL 4567: DIVISION 1 X-PURGE 20" FLAT PANEL PC

NOTES:

① ALL INPUT CONNECTION ARE LOCATED ON TWO PCB'S IN THE EXPLOSION PROOF ALUMINUM BOX BOX ON THE TOP OF THE UNIT. THE 120 VAC POWER INPUT CONNECTION IS ON THE XPI BOARD (I051-000000). THE ALARM RELAY CONNECTION IS ALSO ON THE XPI BOARD. A THREE CONDUCTOR CABLE IS REQUIRED.

② THE DATA SIGNAL INPUTS CONNECTIONS ARE ON THE SSB BOARD (I053-000000). THE CAT5 NETWORK CAN PLUG INTO CABLE I100-001347-01 WHICH IS SUPPLIED WITH THE UNIT.

③ THE SINGAL BOARD COMPUTER IS LOCATED ON THE CENTER OF THE INSIDE REAR WALL FOR ALL MODELS SHOWN. THE 10/100 BASET NETWORK IS STANDARD FOR ALL PC'S. THE RJ45 - RJ45 CAT5 CABLE CAN BE UP TO 328 FEET LONG.

④ SEE TABLE 1 FOR THE DAISY DATA CAT5 INPUT CABLE MODEL NUMBER & LENGTH.

⑤ FOR CABLE & CONDUIT ENTRY INTO THE ENCLOSURE, REFER TO DRAWING "P007".

⑥ THE AIR INPUT FITTING IS A 1/4" NPT FEMALE. THE AIR SOURCE MUST BE CLEAN DRY INSTRUMENT GRADE AIR CAPABLE OF SUPPLYING 40 TO 300 SCFH AT 30 TO 60 PSI.

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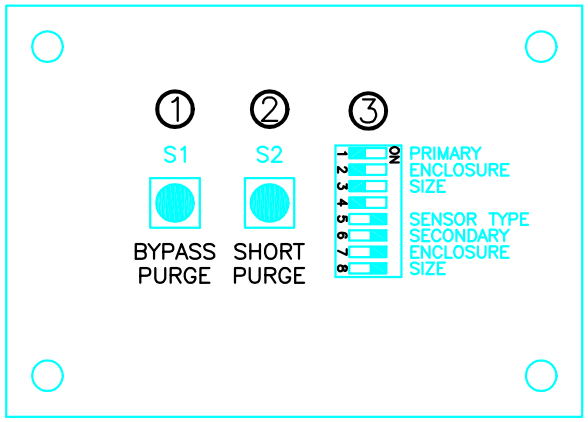
ELECTRICAL BLOCK DIAGRAM DRAWING

CONNECTIONS FOR LCD-PC X-PURGED ENCLOSURES

DRAWING NUMBER E025 REV. -

We Thrive in the Harshest Environments Voice: (717) 932-9999 FAX: (717) 932-8000 or Visit Us At www.daisydata.com

SHEET 1 OF 1



I071-000000
DIP SWITCH MOUNTING BOARD

TABLE 1

	SWITCH NUMBER			
SIZE	1	2	3	4
1ft³	ON	OFF	ON	ON
2ft³	OFF	OFF	ON	ON
3ft³	ON	ON	OFF	ON
4ft³	OFF	ON	OFF	ON
5ft³	ON	OFF	OFF	ON
6ft³	OFF	OFF	OFF	ON
7ft³	ON	ON	ON	OFF
8ft³	OFF	ON	ON	OFF
9ft³	ON	OFF	ON	OFF
10ft³	OFF	OFF	ON	OFF
15ft³	ON	ON	OFF	OFF
20ft³	OFF	ON	OFF	OFF
25ft³	ON	OFF	OFF	OFF
30ft³	OFF	OFF	OFF	OFF

NOTES:

① BYPASS PURGE:
THIS TEST MUST BE DONE IN A SAFE ENVIRONMENT! BYPASS PURGE IS FOR TEST ONLY!
THE PURGE CONTROL SYSTEM IS COMPLETELY BYPASSED & THE ISOLATION RELAYS CLOSE IMMEDIATELY, APPLYING POWER & SIGNALS TO ANY CONNECTED INTERNAL ELECTRONICS. THE PURGE STATUS LED ON THE FRONT PANEL WILL BE ILLUMINATED FLASHING GREEN. NO PURGE AIR IS REQUIRED. REMOVE MAIN AC POWER. PRESS & HOLD THE BYPASS PURGE SWITCH & APPLY MAIN POWER IN TO THE XPI BOARD (SEE NOTES 1 & 4 ON DRAWING "E017"). THEN RELEASE THE SWITCH WITHIN 30 SECONDS. NOW THE UNIT IS IN BYPASS PURGE.
THE UNIT'S INTERNAL ENVIRONMENT WILL NOT BE SAFE UNLESS A NORMAL PURGE CYCLE IS DONE.

② SHORT PURGE SWITCH:
THIS TEST MUST BE DONE IN A SAFE ENVIRONMENT! SHORT PURGE IS FOR TEST ONLY!
THE PURGE CONTROL SYSTEM WILL SET THE PURGE TIME TO 30 SECONDS REGARDLESS OF THE SETTING ON THE ENCLOSURE SIZE SELECT DIP SWITCHES. THE PURGE WILL THEN CONTINUE AS NORMAL. THE PURGE STATUS LED WILL BE ILLUMINATED GREEN. PURGE AIR IS REQUIRED. REMOVE MAIN AC POWER IN. PRESS & HOLD THE SHORT PURGE SWITCH & APPLY MAIN POWER IN TO THE XPI BOARD (SEE NOTES 1 & 4 ON DRAWING "E017"). THEN RELEASE THE SWITCH WITHIN 30 SECOND . CLOSE THE SWITCH COVER & THE ENCLOSURE DOOR. APPLY AIR TO THE PURGE SYSTEM. THE UNIT IS NOW OPERATING NORMALLY.
THE UNIT'S INTERNAL ENVIRONMENT WILL NOT BE SAFE UNLESS A NORMAL PURGE CYCLE IS DONE.

③ ENCLOSURE SIZE DIP SWITCHES:
THE DIP SWITCHES CONTROL THE TIMING OF THE NORMAL PURGE CYCLE. DETERMINE THE INTERNAL CUBIC FOOT AREA OF THE ENCLOSURE THAT THE 9016 IS ATTACHED TO. USE TABLE 1 FOR THE CORRECT SETTING OF THE SWITCHES. SWITCHES 5, 6, 7 & 8 ARE ALWAYS ON. ROUND THE CUBIC UP TO THE NEAREST NUMBER LISTED IN THE TABLE.

DIMENSIONS ARE IN INCHES

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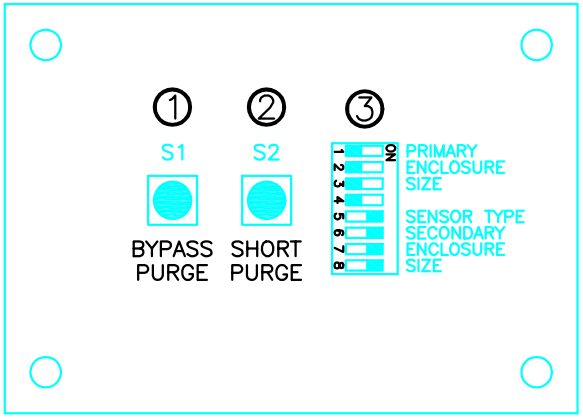
Daisy Data Displays Inc.
2850 Lewisberry Road, York Haven, PA 17370
ITEM LOCATION DIAGRAM DRAWING

DIP SWITCH MOUNTING (DMB) BOARD ITEM LOCATION

DRAWING NUMBER E029 | REV. -



1071–000000
DIP SWITCH MOUNTING BOARD

FOR SOFTWARE VERSION S300–012032 USED FOR ENCLOSURES UP TO 130 CUBIC FEET TABLE 1

	SWITCH NUMBER			
SIZE	1	2	3	4
5ft³	ON	OFF	ON	ON
10ft³	OFF	OFF	ON	ON
20ft³	ON	ON	OFF	ON
30ft³	OFF	ON	OFF	ON
40ft³	ON	OFF	OFF	ON
50ft³	OFF	OFF	OFF	ON
60ft³	ON	ON	ON	OFF
70ft³	OFF	ON	ON	OFF
80ft³	ON	OFF	ON	OFF
90ft³	OFF	OFF	ON	OFF
100ft³	ON	ON	OFF	OFF
110ft³	OFF	ON	OFF	OFF
120ft³	ON	OFF	OFF	OFF
130ft³	OFF	OFF	OFF	OFF

NOTES:

① BYPASS PURGE:
THIS TEST MUST BE DONE IN A SAFE ENVIRONMENT! BYPASS PURGE IS FOR TEST ONLY!
THE PURGE CONTROL SYSTEM IS COMPLETELY BYPASSED & THE ISOLATION RELAYS CLOSE IMMEDIATELY, APPLYING POWER & SIGNALS TO ANY CONNECTED INTERNAL ELECTRONICS. THE PURGE STATUS LED ON THE FRONT PANEL WILL BE ILLUMINATED FLASHING GREEN. NO PURGE AIR IS REQUIRED. REMOVE MAIN AC POWER. PRESS & HOLD THE BYPASS PURGE SWITCH & APPLY MAIN POWER IN TO THE XPI BOARD (SEE NOTES 1 & 4 ON DRAWING "E017"). THEN RELEASE THE SWITCH WITHIN 30 SECONDS. NOW THE UNIT IS IN BYPASS PURGE.
THE UNIT'S INTERNAL ENVIRONMENT WILL NOT BE SAFE UNLESS A NORMAL PURGE CYCLE IS DONE.

② SHORT PURGE SWITCH:
THIS TEST MUST BE DONE IN A SAFE ENVIRONMENT! SHORT PURGE IS FOR TEST ONLY!
THE PURGE CONTROL SYSTEM WILL SET THE PURGE TIME TO 30 SECONDS REGARDLESS OF THE SETTING ON THE ENCLOSURE SIZE SELECT DIP SWITCHES. THE PURGE WILL THEN CONTINUE AS NORMAL. THE PURGE STATUS LED WILL BE ILLUMINATED GREEN. PURGE AIR IS REQUIRED. REMOVE MAIN AC POWER IN. PRESS & HOLD THE SHORT PURGE SWITCH & APPLY MAIN POWER IN TO THE XPI BOARD (SEE NOTES 1 & 4 ON DRAWING "E017"). THEN RELEASE THE SWITCH WITHIN 30 SECOND . CLOSE THE SWITCH COVER & THE ENCLOSURE DOOR. APPLY AIR TO THE PURGE SYSTEM. THE UNIT IS NOW OPERATING NORMALLY.
THE UNIT'S INTERNAL ENVIRONMENT WILL NOT BE SAFE UNLESS A NORMAL PURGE CYCLE IS DONE.

③ ENCLOSURE SIZE DIP SWITCHES:
THE DIP SWITCHES CONTROL THE TIMING OF THE NORMAL PURGE CYCLE. DETERMINE THE INTERNAL CUBIC FOOT AREA OF THE ENCLOSURE THAT THE 9016 IS ATTACHED TO. USE TABLE 1 FOR THE CORRECT SETTING OF THE SWITCHES. SWITCHES 5, 6, 7 & 8 ARE ALWAYS ON. ROUND THE CUBIC UP TO THE NEAREST NUMBER LISTED IN THE TABLE.

DIMENSIONS ARE IN INCHES

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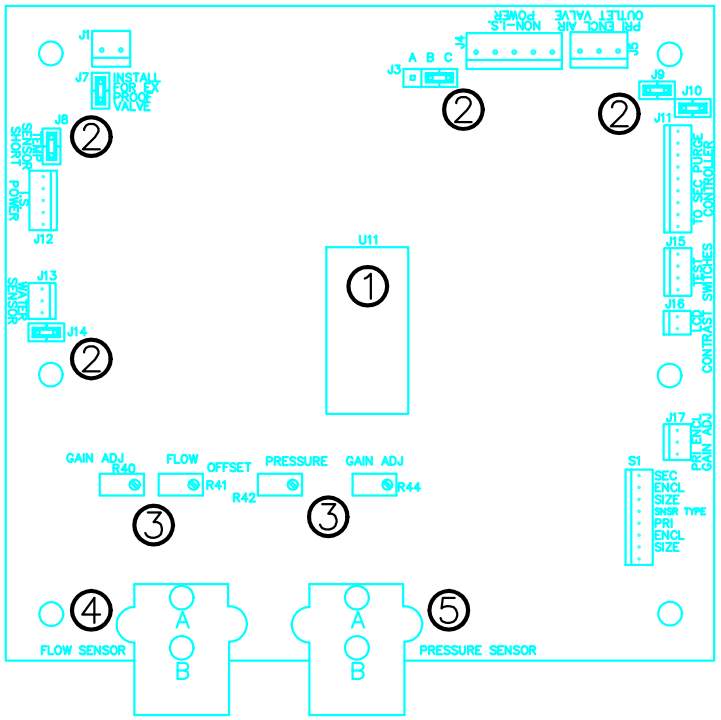
ITEM LOCATION DIAGRAM DRAWING

DIP SWITCH MOUNTING (DMB) ITEM LOCATION (130 C.F.)

DRAWING NUMBER E032 REV. A



I068-000001-01
PURGE CONTROL BOARD

NOTES:

1. EPROM:
THIS IS THE FACTORY SUPPLIED EPROM WITH THE SOFTWARE FOR THE PURGE SYSTEM.

2. JUMPER SETTINGS:
ALL JUMPERS ARE SET AT THE FACTORY! DO NOT CHANGE!

3. FLOW & PRESSURE ADJUSTMENTS:
ALL POTENTIOMETERS ARE SET AT THE FACTORY! DO NOT CHANGE!

4. FLOW SENSOR:
THIS IS THE SENSOR THAT MEASURES THE AIR FLOW INTO THE ENCLOSURE.
THE RED HOSE IS CONNECTED TO PORT "A".

5. PRESSURE SENSOR:
THIS IS THE SENSOR THAT MEASURES THE AIR PRESSURE INSIDE OF THE ENCLOSURE.
THE BLUE HOSE IS CONNECTED TO PORT "A".

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ELECTRICAL BLOCK DIAGRAM DRAWING

PURGE CONTROL BOARD ITEM LOCATION

DRAWING NUMBER E021

REV. -